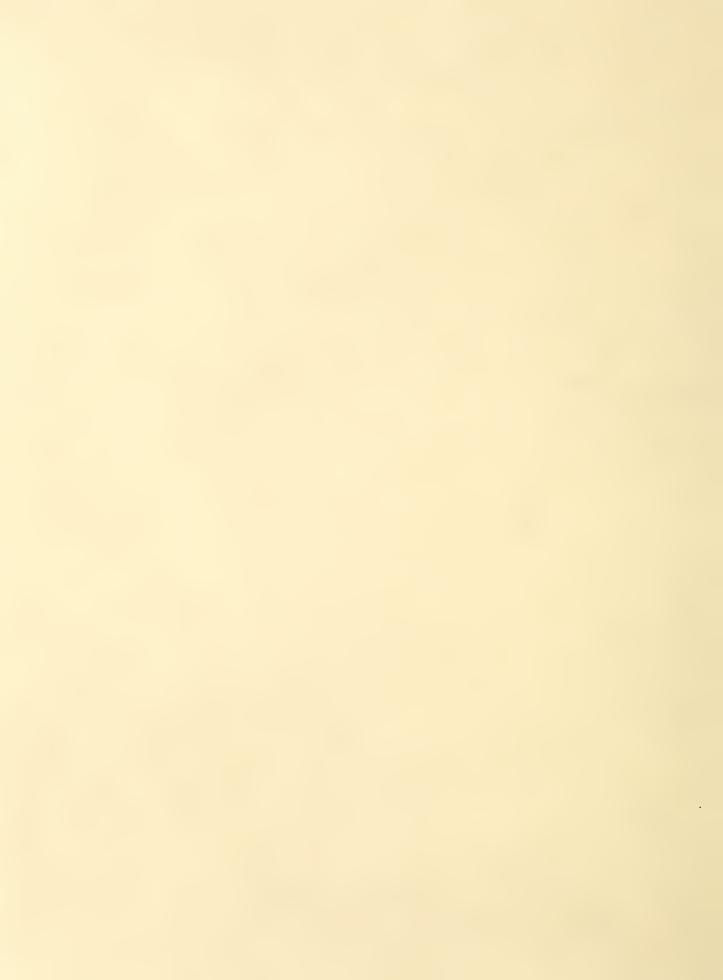
Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.





FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEY and WATER SUPPLY FORECASTS for OREGON

UNITED STATES DEPARTMENT of AGRICULTURE
SOIL CONSERVATION SERVICE
and
OREGON AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.

MAY 1, 1958

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
Colorado, Rio Grande	MONTHLY (FEBMAY),	Colo, Exp. Station	FT. Collins. Colo.
COLUMBIA Includes Alaska	MONTHLY (JANMAY)		Boise, Ioaho
UPPER MISSOURI	MONTHLY (FEB MAY)	Mont.Agr.Exp.Station	BOZEMAN, MONTANA
WEST-WIOE	SEMI-ANNUALLY "" (OCT. 1 ANO APR.1)""	COOPERATORS	PORTLANO, OREGON
STATES			
AR1 ZONA		SALT R. VALLEY WATER	PHOENIX, ARIZONA
NE VA OA	MONTHLY (FEB APR.).	NEVAOA STATE ENGINEER	RENO. NEVAOA
ORE GON	Monthly (JanMay)	ORE.AGR.EXP.STATION	PORTLANO, OREGON
UTAH	Monthly (JanMay)	UTAH STATE ENGINEER UTAH AGR.EXP.STATION	SALT LAKE CITY, UTAH
Washington	Monthly (FebMay)	WASH. STATE DEPT. OFCONSERVATION ANO DEVELOPMENT	Spokane, Washington
WYOM1NG	Monthly (FebJune)		CASPER, WYOMING

Copies of the various reports may be secured from: Head, Water Supply Forecasting Section Soil Conservation Service 209 S.W. 5th Avenue, Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

OTHER SNOW SURVEY REPORTS BRITISH COLUMBIA	(FEBJUNE)COMPTROLLER.	WATER RIGHTS BR., DEPT. O	F LANOS
CALIFORNIAMonTHLY	(FEBMAY)GALIFORN	IA DEPARTMENT OF WATER RES	OURCES.

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEY and WATER SUPPLY FORECASTS for OREGON

ISSUED

MAY 8, 1958

Report prepared by

W. T. FROST, Snow Survey Supervisor

and

MANES BARTON, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE 209 S.W. 5TH AVE. PORTLAND 4, OREGON

Issued by

THOMAS P. HELSETH
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE

F. EARL PRICE

DIRECTOR

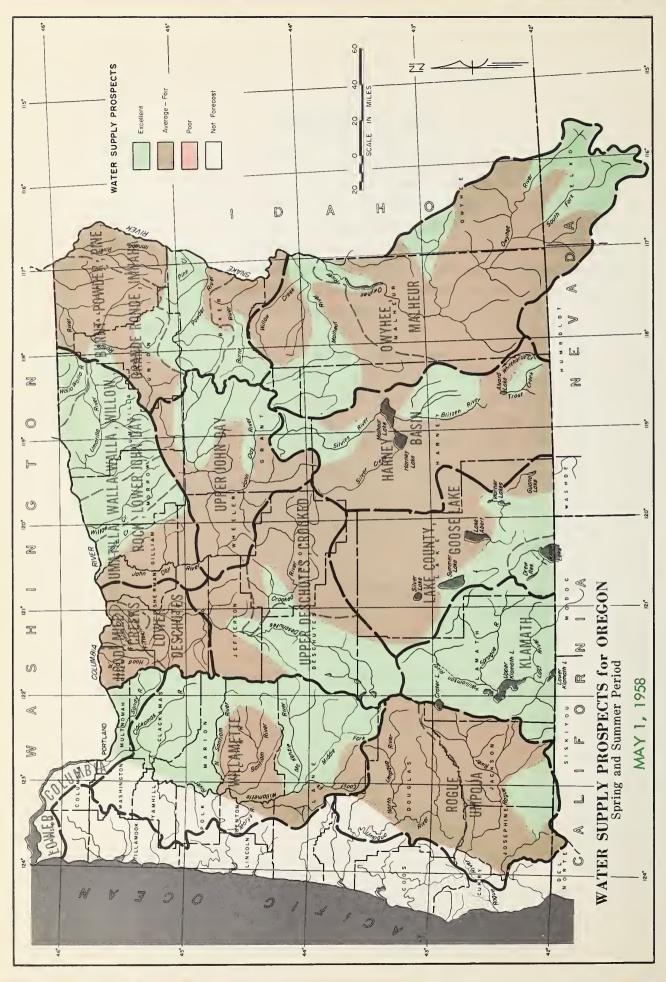
OREGON AGRICULTURAL

EXPERIMENT STATION



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WILLAMETTE AREA 8	
ROGUE, UMPQUA AREA 9	
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WATER SUPPLY OUTLOOK for OREGON

MAY 1, 1958

April precipitation, much above normal in many areas, has added to the already adequate to abundant water supplies available to Oregon farmers. High mountain snow-cover is well above average and reservoired water supplies are excellent.

SNOW-COVER:

Water content of the mountain snow-pack, state-wide, equals the normal peak accumulation usually attained by April 1st in an average winter. This means the present snow-cover is approximately 20 percent greater than normal in water content. In some areas unusually heavy rains could combine with snow-melt to produce excessive flows.

SOIL-MOISTURE:

Watershed soils are exceptionally well wetted throughout the state. This condition favors well sustained runoff.

RESERVOIR STORAGE:

Water supplies in 25 larger reservoirs are 122 percent of average and 91 percent of capacity. Smaller reservoirs and stock ponds throughout the state are full or can be filled.

PRECIPITATION:

Precipitation ¹ during April was 150 to 200 percent of average except for part of Southwestern Oregon, which varied from 40 to 100 percent.

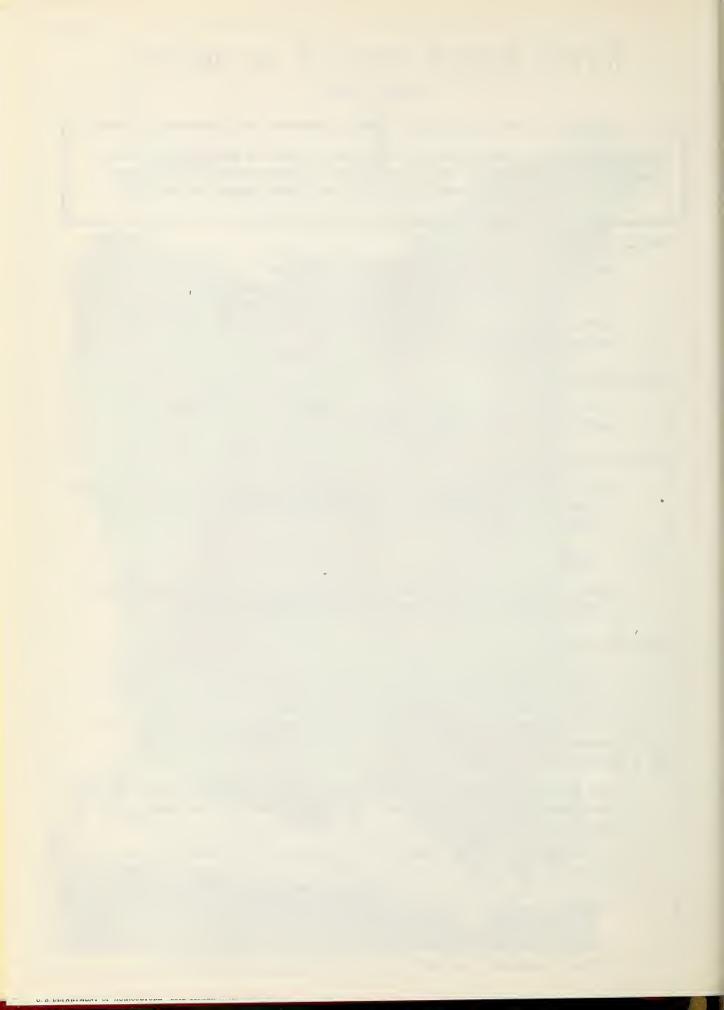
STREAMFLOW:

Streamflow forecasts for the irrigation season indicate normal to much above normal flows can be expected in the state. Forecasts vary from lows of 80 percent average inflow to Hyatt Lake and 90 percent discharge on Little Deschutes River to highs of 143 percent inflow to Upper Klamath Lake, 151 percent discharge of Malheur River and 164 percent inflow to Owyhee Reservoir in Southeast Oregon.

Late season discharge of most small streams that flow out of low-elevation watersheds should be about normal but will fall off earlier than usual unless normal summer precipitation is received.

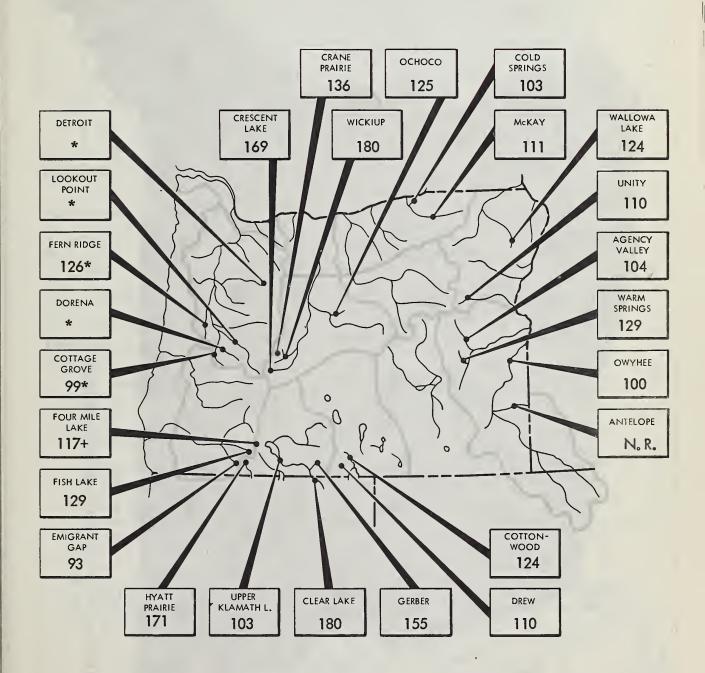
April discharge ² of key Oregon streams varied from 98 percent of average on the Middle Fork of the Willamette to 255 percent on the Umatilla. Runoff since October 1 has been highest (185 percent) on Upper Klamath Lake and lowest (111 percent) on Middle Fork Willamette.

 $^{^1}$ From preliminary data furnished by U.S. Weather Rureau, Portland, Oregon. 2 From preliminary data furnished by U.S. Geological Survey, Portland, Oregon.



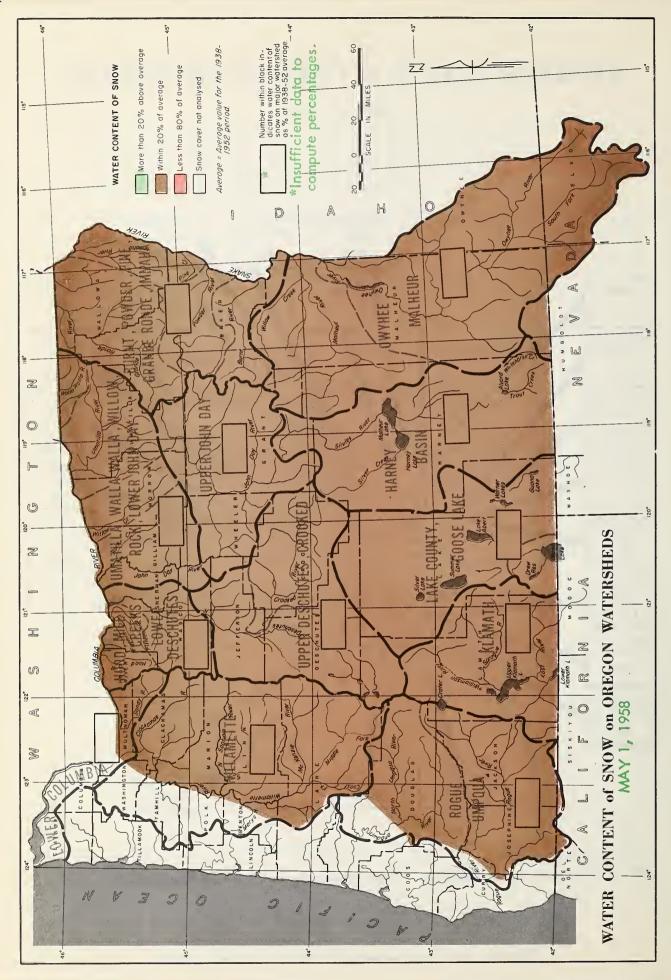
STORAGE STATUS of OREGON RESERVOIRS

MAY 1, 1958



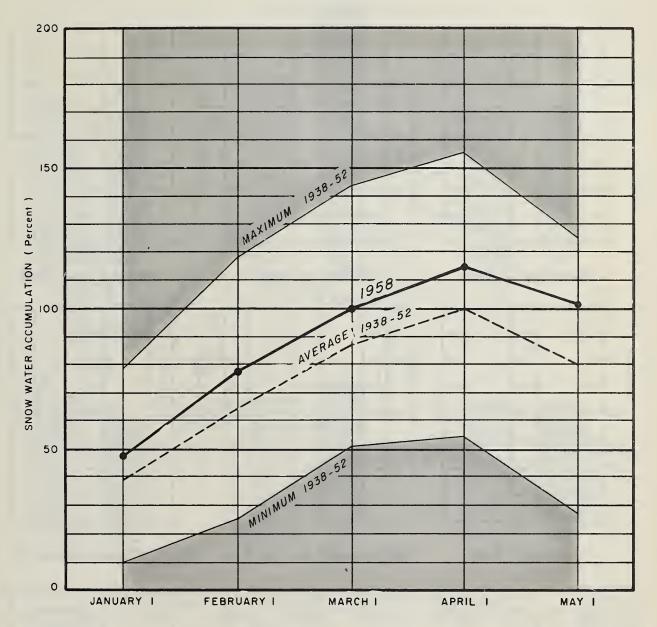
N.R. No Report

^{*} Multiple purpose reservoir - space reserved principally for flood runoff.



SNOW WATER ACCUMULATION in OREGON

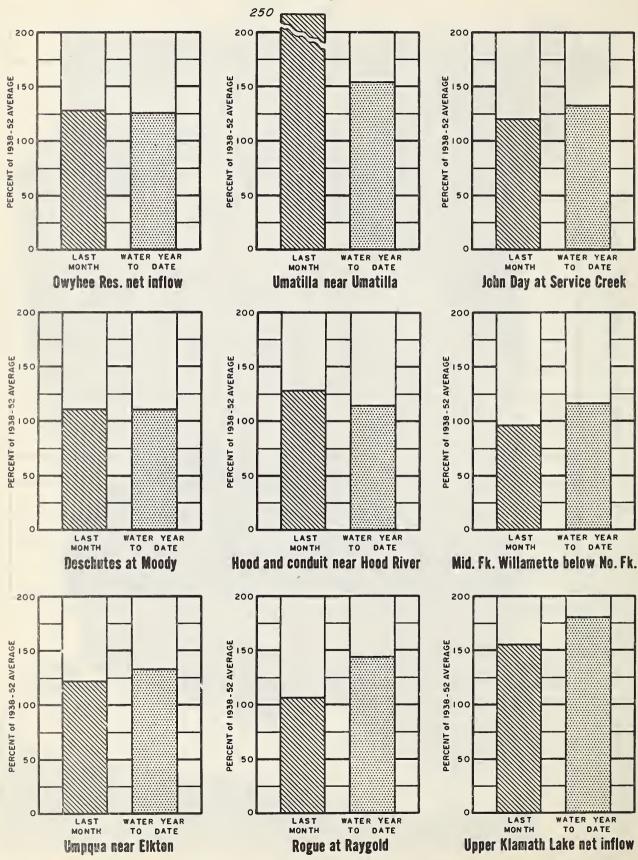
MAY 1, 1958



The snow-pack has been melting slower than usual this year. At some higher elevation snow courses the water content increased, as is normal. However, this year these increases were somewhat greater than usual.

CURRENT OREGON STREAMFLOW

MAY 1, 1958

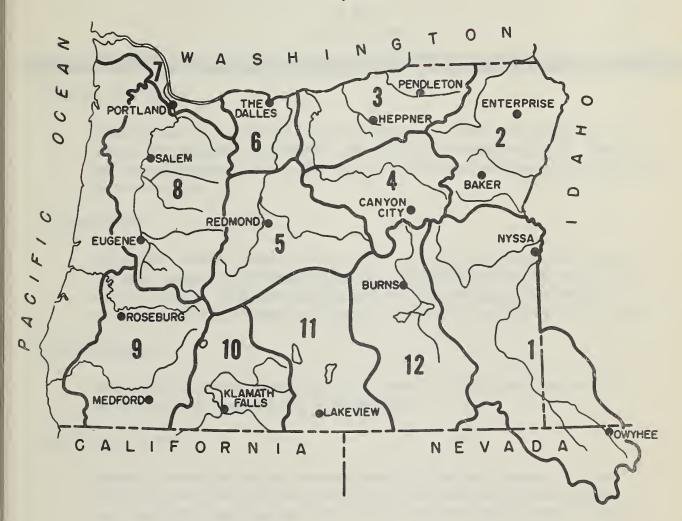


Data furnished by U.S. Geological Survey; The California Oregon Power Co.; and North and South Boards of Control Owyhee Project.

Water year begins Oct. 1, 1957.

VALLEY PRECIPITATION in OREGON®

MAY 1, 1958



PRE	CIPITATION	as PERCE	NT of the 1938-52 AVE	RAGE	
STATION	LAST MONTH	WATER b YEAR TO DATE	STATION	LAST MONTH	WATER D YEAR TO DATE
Baker Apt. Burns Canyon City Enterprise Eugene Apt. Heppner Klamath Falls Apt. Lakeview Medford Apt. Nyssa	183 170 Station c 165 c 67 85 40 234	203 128 closed 130 150 114 123 143	Owyhee (Nev.) Pendleton Apt. Portland Apt. Redmond Apt.* Roseburg Apt. Salem Apt. The Dalles	c 221 175 81 105 190 248	136 88 101 126 105 119

^aPreliminary data furnished by the U.S. Weather Pureau. ^bOct. 1 to date. ^cReport delayed. *As percent of Redmond average.



WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

March brought nearly double the normal amount of rainfall, increasing the water outlook from adequate to abundant supplies for this season's irrigation. Some late season shortages can be expected in low-elevation watersheds unless adequate June rains occur.

SNOW-COVER

An unusual increase in snow-cover occurred during April at high elevations on two snow courses: Blue Mountain Springs on the Malheur River and Jacks Peak on the Owyhee. Cold night temperatures have retarded snow-melt at high elevations, leaving an abnormally heavy snow-pack in the high mountain areas.

SOIL-MOISTURE

Watershed soils are all exceptionally well wetted and will contribute toward a better than usual sustained flow in all streams.

RESERVOIR STORAGE

Reservoirs are full or spilling to make room for inflow yet to come. For two successive years the large storage reservoirs of Malheur County have received much more water than they can store. There should be good hold-over storage for next season's operation.

STREAMFLOW

Irrigation season (April-September) flow of the Malheur River near Drewsey is forecast at 151 percent of average. The Owyhee Reservoir should receive an inflow 164 percent of average during the same period. Jordan Creek will have much above average flow. Late season flow of Bully Creek will fall off a little early.

Report prepared by
W. T. Frost and Manes Barton
U. S Deportment of Agriculture, Soil Conservation Service
209 S. W. Fifth Avenue, Portland, Oregon

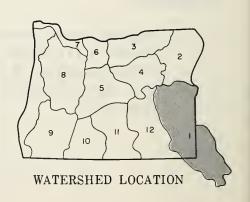
Excellent Average Excellent Excellent Excellent Excellent Excellent	Average Fair Average Average Average Average Average Average	REMARKS
Average Excellent Excellent Excellent Excellent	Fair Average Average Average	
Excellent Excellent Excellent Excellent	Average Average Average	
Excellent Excellent Excellent	Average Average	
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Excellent		
	Average	
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STREAMFLOW FORECASTS (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	FORECAST	NORMAL	THIS YEAR AS PERCENT
NO.	NAME	THIS YEAR	PERIOD	NURMAL	OF NORMAL
1320	Malheur near Drewsey	124	April-Sept.	82	151
139	Malheur North Fork at Beulah ^e	95 °	April – Sept.	64	148
1234	Owyhee Reservoir net Inflow ⁹	750 725 d	April — Sept. April — July March—July	458 440 570	164 165

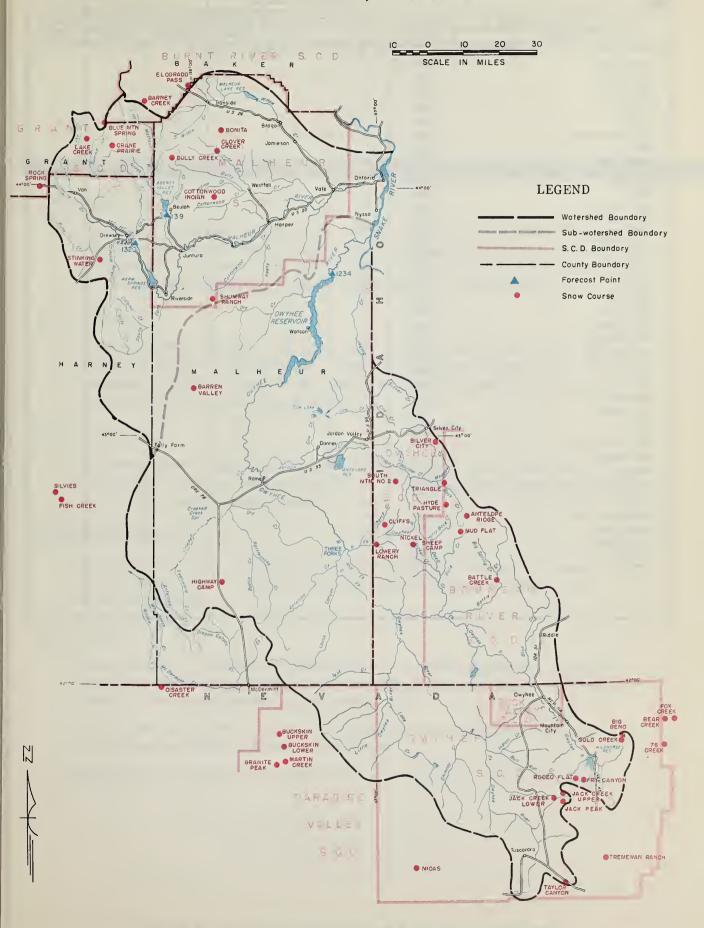
RESERVOIR STORAGE (1.000 Ac. Ft.)

HEGERTOIN GIGHNAL THOOG	7101 1 41 7			
RESERVOIR	USABLE	MEASU	RED (First of M	lonth)
RESERVOIN	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b
Agency Valley	60.0	59.5	60.0	57.0
Antelope	36.5	23.3*		30.8
Owyhee	715.0	670.1	715.0	668.5
Warm Springs	191.0	192.2	192.4	148.9
*As of April 1st.				



^o Assuming normal meteorological conditions. b/938 - '52 , 15 year period. ^oNumber of years in 1938 - '52 period. ^dNot scheduled. ^eCorrected to natural flow. ¹Aerial snow depth gage ; water content estimated. ⁹From USBR records of inflow

OWYHEE, MALHEUR WATERSHEDS



)W		CUR	RENT INFORMAT	ION	PAST R	ECORD	
SNOW COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONT	ENT (Inches)	YEARS OF
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL b	RECORD
Antelape Ridge	5500	d					
Barney Creek	5950	d					
Barren Valley	4200	ď					
Battle Creek [†]	5700	ď					
Bear Creek	7800	d					
Big Bend	6700	4-30	22	9.0	Т		3
Blue Mauntain Springs	5900	4-28	49	21.8	5.0		2
Banita	4600	d		21.0	3.0		_
Buckskin, Lawer	6700	d					
Buckskin, Upper	7200	d					
Bully Creek 1	5300	d					
Cliffs	5200	d					
Claver Creek	4100	d					
Cattanwaad - Indian ^f	4320	ď					
Crane Prairie	5375	d					
Disaster Peak	6500	d					
Eldarada Pass	4600	d					
Fish Creek	7900	d					
Fax Creek	6B00	d					
Fry Canyan	6700	4-30	14	6.5	0.0		0
Gald Creek	6600	4-30	T	T	0.0		0
Granite Peak	7800	d					
Highway Camp	4300	d					
Hyde Pasture 1	5800	d					
Jack Creek, Lawer	6B 00	5-1	0	0.0	0.0		0
Jack Creek, Upper	7250	5-1	26.	13.0	11.3		О
Jack Peak	B420	5-1	99	43.6	36.4		0
Lake Creek	5120	d					
Lowry Ranch	4800	d					
Martin Creek	7200	d					
Midas	5700	d					
Mud Flat	5500	d					
Nickel Sheep Camp f	5450	d					
Rack Springs	5100	d					
Radea Flat	6800	4-30	20	9.0	T		0
Shumway Ranch	4400	d					
Silver City	6400	d					
Silvies	6900	d					
Sauth Mauntain Na.2	6340	d					
Stinking Water	4800	5-1	0	0.0			C
Taylar Canyan	6200	d					
Tremewan Ranch	5700	d					
Triangle	5150	d					
76 Creek	7100	d	1				

WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Abnormally heavy April precipitation increased mountain snow-cover at high elevations and added to an already adequate water supply outlook for farmers in Northeastern Oregon. Reservoired water supplies are well above normal and the annual spring runoff is just getting under way in the Wallowas.

SNOW-COVER

Water content of the snow-pack is 150 percent of last year at this date. The snow-pack increased at five of the higher elevation snow courses. Cool temperatures held snow-melt to a minimum at upper altitudes leaving unusually heavy amounts for later melt and runoff.

SOIL-MOISTURE

Excellent soil-moisture conditions prevail throughout the entire watershed. Penetration of moisture has gone beyond the fourth foot in the deeper soils and will favor well sustained runoff.

RESERVOIR STORAGE

Stored water in Unity and Wallowa Lake Reservoirs is 117 percent of normal. Unity is essentially full and Wallowa Lake is just beginning to receive the major spring runoff.

STREAMFLOW

Forecasts for all Northeastern Oregon streams are normal or greater. Expected flow of Wallowa County streams varies from 100 percent average on Hurricane Creek to 109 percent average on the Imnaha River.

Flow of the Grande Ronde is forecast at 105 percent average with Catherine Creek expected to flow 120 percent of normal.

Powder River is forecast at 130 percent average and Burnt River at 119 percent.

W. T. Frost and Manes Barton
U. S. Department of Agriculture, Solic Diservation Service, 2019, S. W. F. Hith Avenue, Partiand, Oregon

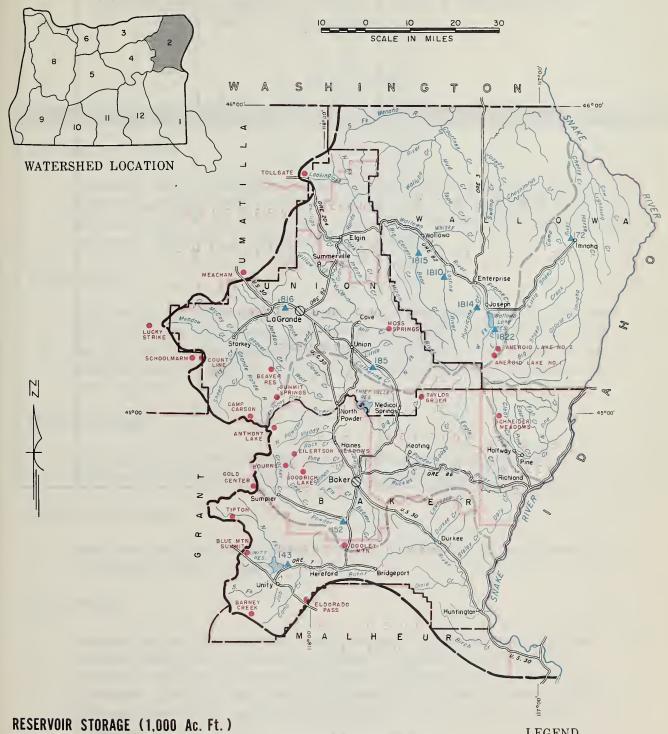
STREAM or AREA	FLOW	PERIOD	DEMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	REMARKS
lder Slope	Average	Average	
aker Volley	Excellent	Average	
ig Creek	Excellent	Average	
lover Creek	Average	Average	
ove	Excellent	Average	
urkee	Average	Average	
ogle Volley	Excellent	Average	
Igin	Excellent	Average	
Interprise – Joseph	Average	Average	
ereford – Bridgeport	Excellent	Average	
nnoho River	Average	Average	
oGronde—Island City	Average	Average	
ostine – Wollowa	Average	Average	
orth Powder River - Wolf Creek	Excellent	Average	
ine Volley	Excellent	Average	
owder River — Elk Creek	Excellent	Average.	
ummerville	Average	Average	
umpter Volley	Excellent	Average	
nion – Hot Loke	Excellent	Average	
nity	Excellent	Average	

STREAMFLOW FORECASTS ° (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	FORECAST	NORMAL ^b	THIS YEAR
NO.	NAME	THIS YEAR	PERIOD	NORMAL	AS PERCENT OF NORMAL
1815	Beor neor Wallowa	74	April-Sept.	69	107
143	Burnt near Hereford ^e	50	April-Sept.	42	119
185	Catherine near Union	85	April-Sept.	71	120
1816	Grande Ronde at LaGrande	186	April-Sept.	177	105
1814	Hurricane near Joseph	45	April-Sept.	45	100
172	Imnaha ot Imnoho	330	April-Sept.	303	109
1810	Lostine near Lostine	134	April-Sept.	124	108
152	Powder neor Baker	82 81	April-Sept. April-July	63 62	130 131
1822	Wollowo Eost Fork neor Joseph ^e	12.0 9.8	April-Sept. April-July	11.3 9.2	106 107

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year periad. ^cNumber of years in 1938-'52 period. ^d Not scheduled. ^cCorrected to natural flow. ^d Aerial snow depth gage; water content estimated.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS



RESERVOIR	USABLE	MEASU	RED (First of N	lonth)
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b
Unity Wallowa Lake	25.2 40.9	24.2 29.5	24.4 38.0	22.0 23.8

LEGEND



112 92 95 30 14 48 2 18 36	42.1 38.6 36.9 9.9 5.1 18.8 0.7 7.8 14.3	36.2 36.7 6.2 	ENT (Inches) NORMAL D	YEARS OF RECORD A 4 C C C C C C C C C C C C C C C C C
112 92 95 30 14 48 2 18 36	(Inches) 42.1 38.6 36.9 9.9 5.1 18.8 C.7 7.8 14.3	36.2 36.7 6.2 6.0	NORMAL D	4 C C 3 C C
92 95 30 14 48 2 18 36	38.6 36.9 9.9 5.1 18.8 C.7 7.8 14.3	36.7 6.2 6.0	 	4 C 3 C
30 14 48 2 18 36	36.9 9.9 5.1 18.8 C.7 7.8 14.3	36.7 6.2 6.0	 	C C C
3C 14 48 2 18 36	9.9 5.1 18.8 C.7 7.8 14.3	6.2 C.C 	 	(3 (C
14 48 2 18 36	5.1 18.8 C.7 7.8 14.3	6.C 	 	3 C C
14 48 2 18 36	5.1 18.8 C.7 7.8 14.3	6.C 	 	3 C C
48 2 18 36	18.8 C.7 7.8 14.3		 	C C C
2 18 36	C.7 7.8 14.3	 6.0		C C C
18 36	7.8 14.3	0.C	 	C
18 36	7.8 14.3	0.C		C
36	14.3	0.C		
				1
30				
30		1		
	13.2			С
12	3.(6.6		3
75	30.2	22.6		1
				ĺ
1	6.3			(
18	7.9	0.0		1
78	32.7	15.6		3
	18	18 7.9	18 7.9 0.0	18 7.9 (.6

WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Abnormally heavy precipitation in April increased the mountain snow-pack in the higher elevations and added to an already adequate water supply outlook for farmers in Umatilla, Morrow and Gilliam Counties. Recent floods resulted largely from heavy rainfall which added to snow-melt runoff.

SNOW-COVER

Water content of the snow-pack is many times greater than last year at this date. This is due in part to continued snow accumulation and to delayed melt. Toll-gate snow has a water content of 32.7 inches compared to 15.6 inches last year. Arbuckle Mountain snow has 10.2 inches of water while there was none at this time last year.

SOIL-MOISTURE

Watershed soils are well saturated with moisture penetrating well beyond the fourth foot. This condition will favor a well sustained streamflow.

RESERVOIR STORAGE

Stored water supplies are excellent with both Cold Spring and McKay Reservoirs full and more water available.

STREAMFLOW

Forecasts for above normal flows during the April-September period indicate the Walla Walla near Milton will discharge 114 percent of average, the Umatilla at Pendleton 110 percent of average and McKay Creek 125 percent of average. Excellent spring and early summer flows of Birch, Butter, Willow, Rhea and Rock Creeks, and other small streams, will be the rule with late season flows about average.

Report prepared by

W.T. Frast and Manes Bartan
U.S. Department at Agriculture, Sail Canservation Service
209 S.W. Fifth Avenue, Portland, Oregan

STREAM or AREA	FLOW F	PERIOD	REMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	NEWANNS
Birch Creek	Excellent	Average	·
Butter Creek	Excellent	Average	
Dry Creek	Excellent	Average	
Dugger Creek	Excellent	Average	
Johnson Creek	Excellent	Average	
McKay Creek	Excellent	Average	
Mill Cr.	Excellent	Average	
Mud Creek	Excellent	Average	
Pine Creek	Excellent	Average	
Rhea Creek	Excellent	Average	
Umatilla River(Cold Springs Res.)	Excellent	Average	
Umatilla River, Main	Excellent	Average	
Umatilla River (McKay Res.)	Excellent	Average	
Walla Walla River, Little	Excellent	Average	
Walla Walla River, Main	Excellent	Average	
Walla Walla River, North Fork	Excellent	Average	
Walla Walla River, South Fork	Excellent	Average	,
Willow Creek	Excellent	Average	*
Rock Creek	Excellent	Average	

STREAMFLOW FORECASTS ° (1,000 Ac. Ft.)

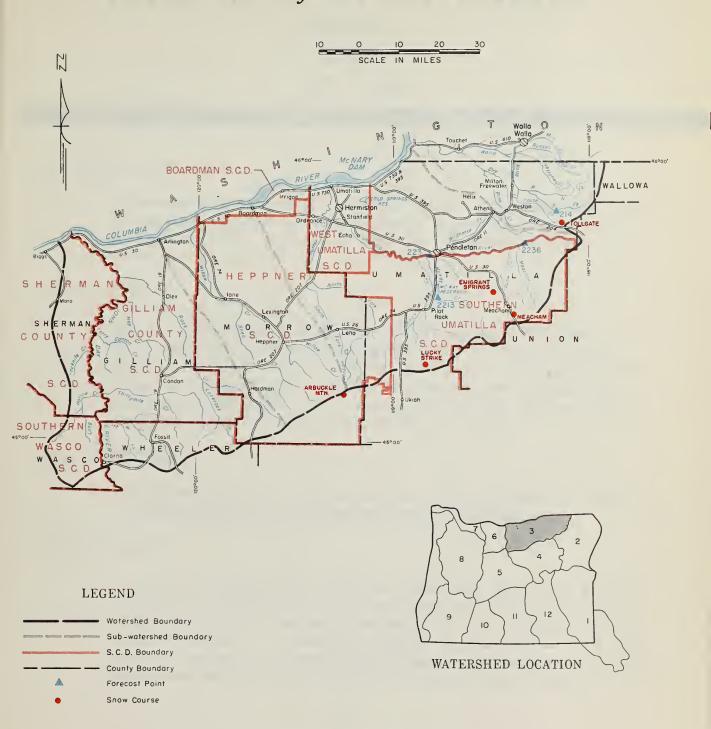
NO.	FORECAST POINT NO. NAME		FORECAST PERIOD	NORMAL ^b	THIS YEAR AS PERCENT OF NORMAL	
2213	Mc Kay near Pilot Rock	35 35	April-Sept. April-July	28 28	125 125	
2236	Umatilla near Gibbon	95	April-Sept.	87	109	
223	Umatilla at Pendleton	183 170	April-Sept. April-July	167 155	110 110	
214	Walla Walla, South Fork near Milton	81 67	April-Sept. April-July	71 58	114 116	

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE		E OF SNOW DEPTH	WATER	WATER CONTENT (Inches)		YEARS OF C
ELEVATION	SURVEY (Inches)	(Inches)	hes) (Inches)	LAST YEAR	NORMAL b	RECORD
5400	4-28	26	10.2	0.0		0
3925	4-25	10				3
5050	d					
4300	4-25	12	3.0	0.0		3
5070	4-25	78	32.7	15.6		3
	5400 3925 5050 4300	5400 4-28 3925 4-25 5050 d 4300 4-25	DATE OF SNOW DEPTH (Inches) 5400	DATE OF SURVEY SNOW DEPTH CONTENT (Inches) 5400	DATE OF SURVEY SNOW DEPTH (Inches) WATER CONTENT (Inches) LAST YEAR	DATE OF SURVEY SNOW DEPTH CONTENT (Inches) WATER CONTENT (Inches) LAST YEAR NORMAL b

^o Assuming normal meteorological conditions. b 1938-'52, 15 year period. cNumber of years in 1938-'52 period. cNumber of years in 1938-'52 period.

e Corrected to notural flow. Aerial snow depth gage; water content estimated.

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED (First of Month)			
MESERVOII.	CAPACITY	THIS YEAR	50.0 50.0 4	NORMAL b	
Cold Springs Mc Kay	50.0 74.0	50.0 74.0		48.4 66.9	



WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Abnormally heavy April precipitation increased the high elevation snow-pack and thereby improved the already adequate water supply outlook for farmers in Grant and Wheeler Counties.

SNOW-COVER

Water content of the snow in areas above 6000 feet continued to increase during the month instead of beginning to melt and run off as is normal. Present snow-cover is only slightly less than the amount normally accumulated by April 1st. Water content at Olive Lake increased from 26.7 inches to 30.1 inches.

SOIL-MOISTURE

All watershed soils are exceptionally wet and will favor a well sustained late-season stream discharge.

STREAMFLOW

Forecasts of streamflow in the John Day Basin have been increased slightly over the last month's outlook. Flow of the major tributaries is expected to be about 116 percent of normal. Strawberry Creek is forecast at 111 percent of normal and smaller tributaries throughout the area are expected to produce better than average flows.

Report prepared by

W T Frost and Mones Borton

U. S Department of Agriculture, Sail Conservation Service 209 S. W. Fifth Avenue, Portland, Oregon

STREAM or AREA	FLOW PE	RIOD	BEMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	REMARKS
Beech Creek	Average	Average	
Beech Creek-Fox-Long Creek	Average	Average	
Bridge – Mountain Creeks	Average	Average	
Camas Creek	Average	Average	
Cherry Creek	Average	Average	
Indian-Pine Creeks	Average	Average	
John Day River, Main Fork	Excellent	Average	
John Day River, Mid. Fork	Excellent	Average	
John Day River, North Fork	Excellent	Average	
Jahn Day River, Sauth Fork	Excellent	Average	
Monument - Kimberly	Average	Average	
Strawberry Creek	Excellent	Average	

STREAMFLOW FORECASTS ° (1,000 Ac. Ft.)

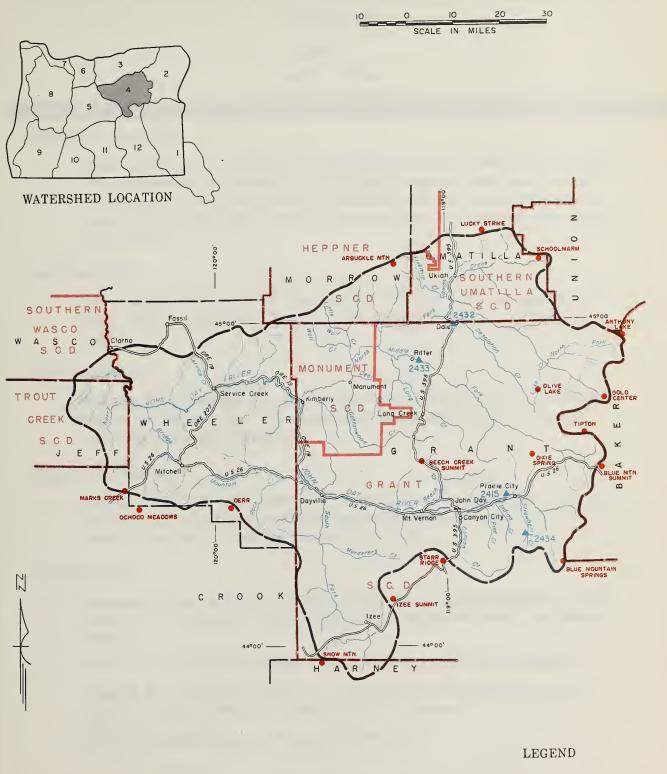
NO.	FORECAST POINT NAME	FORECAST THIS YEAR	FORECAST PERIOD	NORMAL ^b	THIS YEAR AS PERCENT OF NORMAL
2415	Jahn Day at Prairie City	58 52	April-Sept. April-July	50 45	116 116
2433	John Day, Mid. Fark at Ritter	143	April-Sept.	122	117
2432	Jahn Day, North Fark near Dale	287	April-Sept.	248	116
2434	Strawberry near Prairie City	9.2	April-Sept.	8.3	111

SNOW		CURE	RENT INFORMAT	TION	PAST R	ECORD	1
SNOW COURSE		DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT (Inches)		YEARS OF C
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL b	RECORD
Anthany Lake	7125	4-28	95	36.9	36.7		0
Arbuckle Mauntain	5400	4-28	26	10.2	0.0		0
Beech Creek Summit	4800	4-25	0	0.0	0.0		0
Blue Mountain Springs	5900	4-28	49	21.8	5.0		2
Blue Mountain Summit	5098	4-28	14	5.1	0.0		3
Derr	5670	d				·	
Dixie Springs	6650	d					
Gold Center	5340	4-28	30	13.2			0
Izee Summit	5293	4-25	19	8.2	0.0		2
Lucky Strike	5050	d					
Marks Creek	4540	4-25	0	0.0	0.0	-	1
Ochaca Meadaws	5200	d					
Olive Lake	6000	4-27	72	30.1			2
Schaalmarm	4775	4-29	1	0.3			0
Snow Mauntain	6300	d					
Starr Ridge	5156	4-25	0	0.0	0.0		2
Tipton	5100	4-29	18	7.9	0.0		1

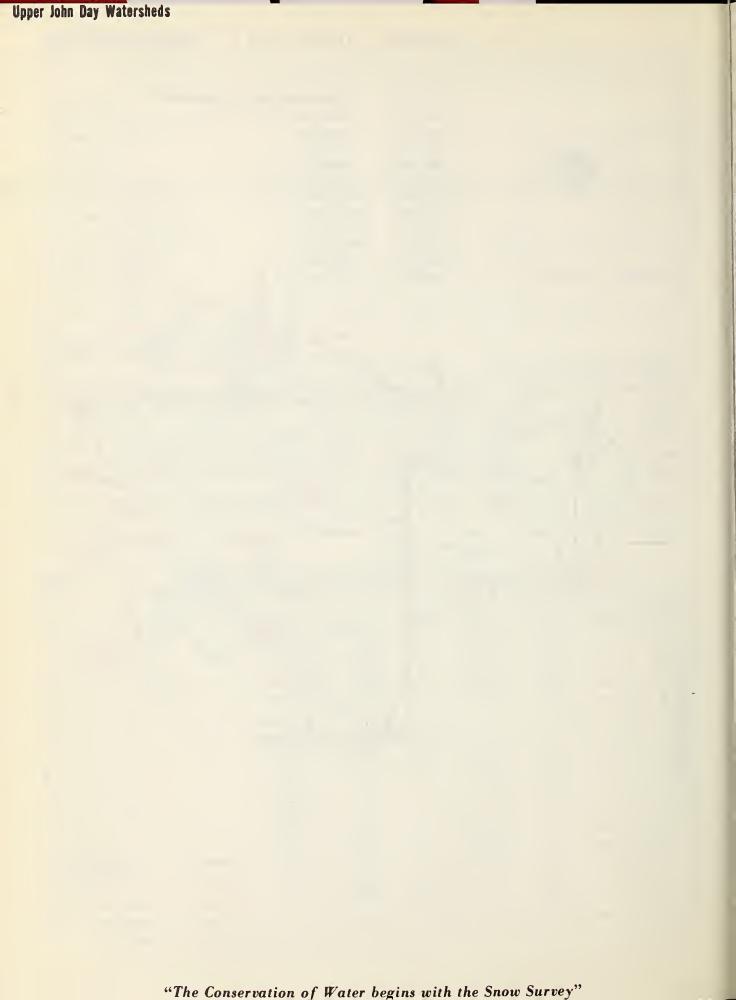
a Assuming normal meteorological conditions. \$1938-'52,15 year period. Number of years in 1938-'52 period. Not scheduled.

e Corrected to notural flow. Aerial snow depth gage; water content estimated.

UPPER JOHN DAY WATERSHEDS







WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Above normal April precipitation brought near normal increases in snow-cover at high elevations and added slightly to the already adequate water outlook for farmers in Deschutes, Crook and Jefferson Counties. Cool temperatures have held back snow-melt runoff in recent weeks but reservoired water supplies are excellent.

SNOW-COVER

Water content of the mountain snow-pack is 158 percent of last year at this date. The remaining pack is sufficient to provide a normal runoff for this season.

SOIL-MOISTURE

Moisture has penetrated the soil-mantle of the watersheds beyond the fourth foot in the deeper soils. This exceptionally good soil-moisture will help to sustain late season streamflow.

RESERVOIR STORAGE

Storage in the four major reservoirs, Crane Prairie, Crescent Lake, Ochoco, and Wickiup, is 161 percent of average and 98 percent of capacity. Small reservoirs and stock ponds are reported to be full.

STREAMFLOW

Forecasts of flow for the April through September irrigation season range from 89 percent of average on Little Deschutes to 118 percent average on Squaw Creek.

Flow of the Deschutes at Benham Falls is forecast at 99 percent average.

Crooked River near Post is expected to discharge 110 percent average and inflow to Ochoco Reservoir is estimated at 110 percent.

This will be another good water year for this area.

W.T. Frast and Manes Barton
U.S Department of Agriculture, Soil Conservation Service
209 S.W. Fifth Avenue, Portland, Oregon

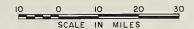
STREAM or AREA	FLOW	PERIOD	REMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	REMARKS
Arnold I. D.	Average	Average	
Bear Creek	Average	Average	
Beaver Creek	Average	Average	
Camp Creek	Average	Average	
Central Oregon I. D.	Excellent	Average	
Crooked River	Average	Average	
Deschutes River	Excellent	Average	
Hay-Trout Creeks	Average	Average	
Lone Pine I. D.	Average	Average	
Mill Creek	Average	Average	
North Unit I. D.	Excellent	Average	
Ochoco Creek	Average	Average	
Ochoco I. D.	Excellent	Average	
Sisters I. D.	Excellent	Average	
Snow Creek I. D.	Average	Average	
Squaw Creek I. D.	Excellent	Average	
Swalley Ditch	Excellent	Average	
Tumalo Project	Excellent	Average	
Walker Basin I. D.	Average	Average	
•			

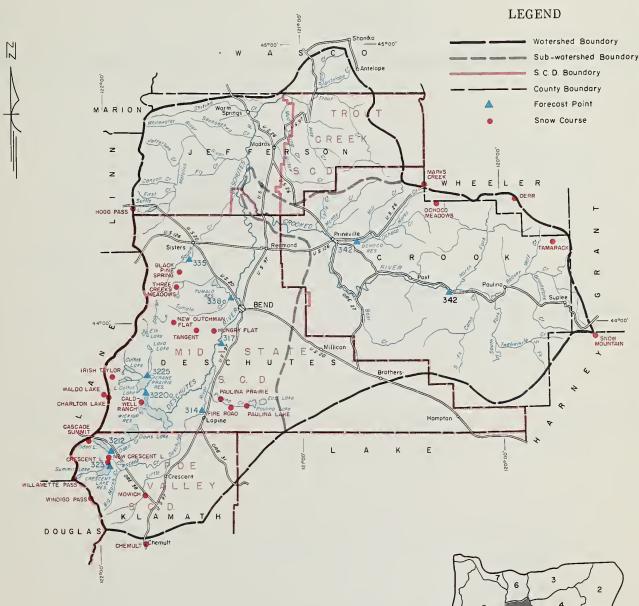
STREAMFLOW FORECASTS ° (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	FORECAST PERIOD	NORMAL ^b	THIS YEAR AS PERCENT
NO.	NAME	THIS YEAR	PERIOD		OF NORMAL
3220a	Crane Prairie Reservoir net inflow	125	April - Sept.	121	103
323	Crescent at Crescent Lake ^e	19	April - Sept.	21	90
342	Crooked near Post	136	April - Sept.	124 ⁹	110
317	Deschutes at Benham Falls ^e	505	April – Sept.	511	99
		345	April - July	346	100
3225	Deschutes below Snow Creek	66	April- Sept	60	110
314	Deschutes, Little near Lapine ^e	80	April- Sept.	90	89
		71	April - July	79	90
3421	Ochoco Reservoir net inflow	31	April - Sept.	28	110
3212	Odell near Crescent	28	April- Sept.	29	97
335	Squaw near Sisters	58	April- Sept.	49	1.18
338 A	Tumalo near Bend ^e	56	April- Sept.	48	117
			· ·		
		1			

Assuming normal meteorological conditions.
 □ 1938 - 52, 15 year period.
 □ Number of years in 1938 - 52 period.
 □ Not scheduled.
 □ Corrected to notural flow.
 □ 1938 - 39 excepted.
 □ 1938 - 39 excepted.

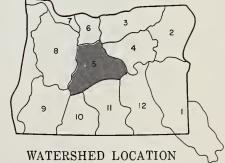
UPPER DESCHUTES, CROOKED WATERSHEDS





RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED (First of Month)				
KESEKVOIK	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b		
Crane Prairie Crescent Lake 80.0 — Ochoco Wickiup	55.3 -68.0 46.0 200.0	56.8 72.9 44.5 199.5	59.5 66.2 46.8 199.8	41.7 43.2 35.7 110.8*		
*1938-42 excepted						



WONS		CURF	RENT INFORMAT	TION	PAST R	ECORD	
SNOW COURSE	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONT	ENT (Inches)	YEARS OF C
Black Pine Spring	4600	4-22	С	0.0	0.0		1
Caldwell Ranch	4400	d					•
Cascade Summit	4880	4-28	64	30.8	18.2	32.7	7
Charltan Lake	5750	d				-	
Chemult	4760	4-29	6	2.5	0.0	0.6	5
Crescent Lake	4760	4-28	0	0.0	0.0		3
Derr	5670	d					
Fire Road	5050	4-25	0	0.0	0.0		О
Hogg Pass	4755	4-28	100	48.5	32.3	57.2	6
Hungry Flat	4400	4-23	0	0.0	0.0		1
Irish-Taylor	5500	d					
Marks Creek	4540	4-25	C	0.0	0.0		1
Mawich	4700	4-29	0	0.0	0.0		0
New Crescent Lake	4800	4-28	24	9.9	0.0		1
New Dutchman Flat	6400	4-23	143	68.1	49.0	65.4	7
Ochoca Meadaws	5200	d					
Paulina Lake	6330	4-25	54	24.7	16.4		0
Paulina Prairie	4285	4-25	0	0.0	0.0		0
Snaw Mountain	6300	d					
Tamarack	4800	d					
Tangent ·	5400	4-23	48	21.7	6.9		1
Three Creeks Meadaws	5600	4-22	48	22.3	9.6		4
Waldo Lake	5500	d					
Willamette Pass	5600	4-29	110	50.3	35.1		4
Windigo Pass	5800	4-28	117	55.6	44.3		4

WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Unusually heavy precipitation in April brought increased snow-packs in the high elevations and generally improved an already adequate outlook for most lands in Hood River Valley and Wasco County. However, the smaller streams, heading in low-elevation watersheds, will fall off earlier than usual unless summer rains are unusually heavy.

SNOW-COVER

Water content of the snow is about 10 percent greater than the usual peak accumulation in an average winter. The higher elevations of Mt. Hood added more snow as is evidenced in the measurement at Phlox Point which increased from 76.1 inches water content on April 1st to 83.1 inches on May 1.

SOIL-MOISTURE

All watershed soils are exceptionally wet and will favor a well sustained streamflow.

STREAMFLOW

Forecasts for major streams increased slightly above those announced on April 1st. Hood River is expected to discharge 108 percent of average April through September. For the same period the flow of White River is forecast at 105 percent. Flows of Mill Creek, Mile Creeks, Tygh, Badger, Rock, Gate and Three-mile Creeks can be expected to fall off slightly earlier than usual. Juniper Flat should have satisfactory water supplies except for a slightly early cut off.

Report prepored by .

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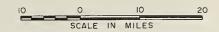
STREAM or AREA	FLOW P	ERIOO	REMARKS
STREAM OF ANEA	SPRING SEASON	LATE SEASON	REMARKS
Aldridge Ditch Badger Creek Dee I. D. East Fork I. D. Farmers I. D. Glacier I. D. Hood River Juniper Flat Middle Fork I. D.	Average	Fair Fair Average Average Average Average Average Fair Average	
Mile Creek Mill Creek Mount Hood I. D. Rock-Gate-Threemile Creeks Tygh Creek White River	Average Average Average Average Average	Fair Fair Average Fair Fair Average	

NO.	FORECAST POINT NAME	FORECAST THIS YEAR	FORECAST PERIOO	NORMAL	THIS YEAR AS PERCENT OF NORMAL
437 438 3613	Hood near Hood River ^e Hood, West Fork near Dee White below Tygh Valley	330 280 158 138 160 145	April-Sept. April-July April-Sept. April-July April-Sept. April-July	306 260 147 127 152 135	108 108 107 108 105 107

SNOW	NOW			ION	PAST RECORO		
SNOW COURSE		OATE OF	SNOW OEPTH	WATER	WATER CONT	FENT (Inches)	YEARS OF C
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL b	RECORO
Brooks Meadows	4300	d					
Clear Lake	3500	4-27	0	0.0	1.0		3
Greenpoint Reservoir	3400	d					
Phlox Point	5600	4-28	160	83.1	52.0	59.1	13
Red Hill	4400	d					
Still Creek	3700	4-29	26	12.1	12.4	14.9	12
Tilly Jane	6000	d					

^o Assuming narmal meteoralagical conditions. b 1938 - '52 , 15 year period. ^cNumber of years in 1938 - '52 period. ^dNot scheduled. ^eCorrected to natural flow. ^fAeriol snow depth gage ; water content estimated.

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS







WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Accumulation of snow at high altitudes in the Columbia Basin in general was well above normal during April. Many snow courses show greater snow water content on May 1 than was recorded on April 1 (which is usually the date of maximum accumulation).

The flow of the Columbia River at The Dalles is forecast to be 101 percent of the 1938-52 fifteen year average.

SNOW -COVER

Snow-cover at lower elevations is near normal or slightly below the average as of May 1st. However, at the high elevations, the snow-cover runs well above normal reflecting the delayed melt at these elevations and the heavy snowfall during April.

Streamflow resulting from low elevation snow-melt is counter-balanced by additional snowfall in the higher elevations.

SOIL-MOISTURE

Watershed soils under the mountain snow-pack at the higher elevations are still relatively dry but have improved in some other areas.

RESERVOIRS

Storage in irrigation reservoirs continues to be well above normal. Operation of multiple-purpose reservoirs is proceeding in accordance with operational plans directed at giving maximum results for flood control, power and irrigation use. In recent years these operations made possible the storage of approximately 3 to 4,000,000 acre feet of water during May-June.

STREAMFLOW

The forecasts presented are for the natural flow that would occur in the river if no upstream management was performed. Thus, the actual flow of the Columbia at The Dalles during May-June will be approximately 3 to 4,000,000 acre feet less than the forecast given.

Information furnished by

11. W. Nelson - Soil Conservation Service, Poise, Idaho
Report prepared by

W T Frost and Mones Borton

W 1 Frost and Mones Borron
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Partland, Oregon

FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	NORMAL b	THIS YEAR AS PERCENT OF NORMAL
Columbia at The Dalles	98,000 67,500 54,200	AprSept. AprJune May-June	97,000 65,900 51,800	

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STR	EAMFLOW C (1,000 A	.F.)	PEAK e	DATE
TEAR	APR SEPT.	APR JUNE	MAY - JUNE	(1,000 c.f.s.)	ONIE
1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	103,400 80,800 77,400 69,100 90,300 115,000 61,900 81,500 108,000 100,300 130,500 95,700 120,600 113,000 107,700	72,600 53,300 52,100 43,500 58,100 75,300 39,200 54,600 75,400 70,000 94,600 71,400 74,700 75,600 77,500	56,700 40,500 38,900 33,500 44,500 52,400 32,100 47,300 59,600 56,800 81,900 56,000 61,200 59,100 57,300 51,800	605 387 369 272 428 541 326 505 581 536 999 622 744 597 557	May 31 May 21 June 5 June 18 June 18 June 19 June 8 May 30 May 11 May 31 May 18 June 25 May 26 May 28
1953 1954 1955 1956 1957	100,600 119,500 99,500 131,200 115,200	64,900 70,500 58,300 97,100 79,200	55,800 59,300 50,300 75,800 67,200	609 561 545 554 685	June 17 May 23 June 26 Apr. 26 May 22

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria) f

VANCOUVER	g FLOW AT			DRAINAGE	DISTRICT F	PUNPHOUSE		
GAGE	THE DALLES	SANDY	SAUVIE IS.	SCAPPOOSE	DEER IS.	RAINIER	BEAVER	WOODSON
(WEATHER BL	.) (1000 cfs)				RIVER MI.		_	
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 34 (1894 33 32 31	1,290 1,220 1,150 1,090 1,030	42.2 41.3 40.4 39.5 38.5	35.3 34.4 33.3 32.2 31.2	34.4 33.4 32.3 31.2 30.1	29 .6 28.5 27.5 26.5 25.5	22.9 22.0 21.0 20.0 19.1	18.3 17.5 16.7 15.9 15.1	16.2 15.5 14.8 14.1 13.4
30 (1948 29 (1876 28 27 26	920 870 820 770	37.4 36.2 35.1 33.8 32.5	30.1 29.1 28.1 27.1 26.1	29.0 28.1 27.3 26.4 25.3	24.6 23.9 23.3 22.4 21.4	18.3 17.7 17.2 16.6 15.8	14.4 13.8 13.3 12.8 12.3	12.7 12.1 11.6 11.2 10.8
(1933) 25 (1950) 24 (1957) 23 22 (1953) 21	7 30 690 650	31.8 30.3 29.5 28.6 27.6	25.1 24.0 22.9 21.9 21.0	24.1 23.0 21.9 20.8 19.8	20.4 19.5 18.7 17.6 16.6	15.1 14.5 13.9 13.3 12.7	11.9 11.6 11.3 11.0 10.7	10.5 10.3 10.1 9.9 9.7
20 19 18 17 16	540 510 480 450 430 400	26.5 25.5 24.4 23.4 22.4 21.4	20.1 19.2 18.3 17.4 16.5 15.5	18.9 18.0 17.2 16.4 15.5 14.4	15.7 15.0 14.3 13.7 13.0 12.0	12.2 11.8 11.4 11.0 10.5 9.8	10.3 10.0 9.8 9.6 9.3 8.8	9.5 9.3 9.1 8.9 8.7 8.3

^aAssuming normal meteorological conditions.

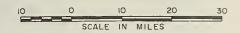
^b1938-'52, 15 year period.

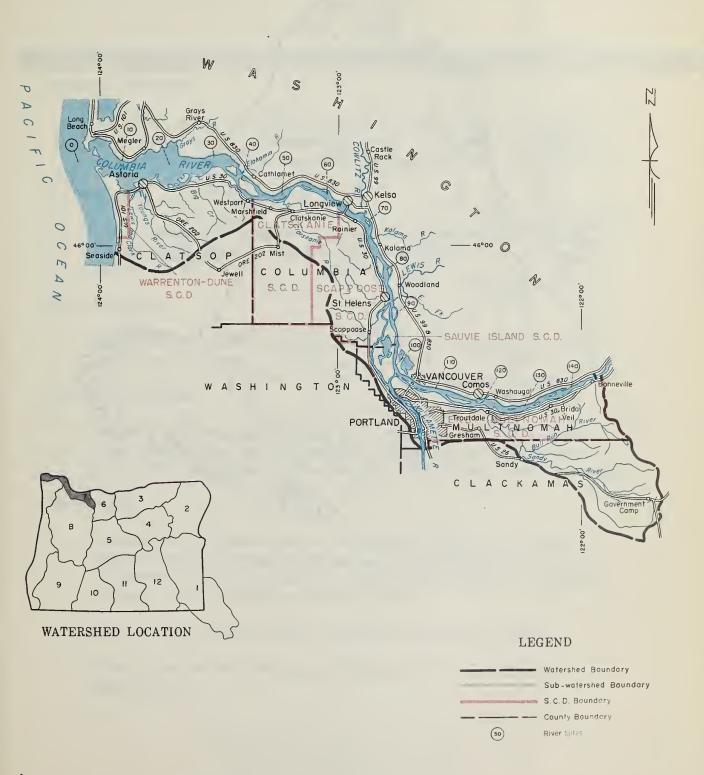
^cObserved flow corrected for storage in F.D.R., Kootenai, Pend Oreille, Flathead, Hungry Horse, Lake Chelan, Coeur d'Alene and Grand Coulee Equalizer.

^dNot scheduled.

^eObserved peak

LOWER COLUMBIA WATERSHEDS





frased on Corps of Engineers automatic water stage recorder data.

Byancouver Weather Rureau gage zero is 2.64' above M.S.L. All other readings are in feet above M.S.L.



WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Abnormally heavy April precipitation added to an already adequate water outlook for farmers in the Willamette Valley. Late season flows of all smaller tributaries will be partly dependent upon satisfactory summer rains.

SNOW-COVER

Water content of the mountain snow-pack is 165 percent of last year at this date and is equal to the normal peak accumulation of the winter season.

SOIL-MOISTURE

Exceptionally wet soils in the upper watersheds will favor a well sustained flow in the late season.

RESERVOIR STORAGE

Water stored in five multiple-purpose reservoirs, Cottage Grove, Detroit, Dorena, Fern Ridge, and Lookout Point, is 6 percent less than last year.

Ample runoff is available to fill these reservoirs for normal summer operations.

STREAMFLOW

Forecasts of streamflow for the major Willamette tributaries are normal or better for the April through September season. Expected flows range from 100 percent normal on the Row River and the South Santiam to 113 percent average on the Clackamas and the Middle Fork.

Flow of the Willamette at Salem is forecast at 115 percent average.

Flows of the Molalla, Pudding, and Calapooya Rivers will be slightly above normal.

Report prepared by

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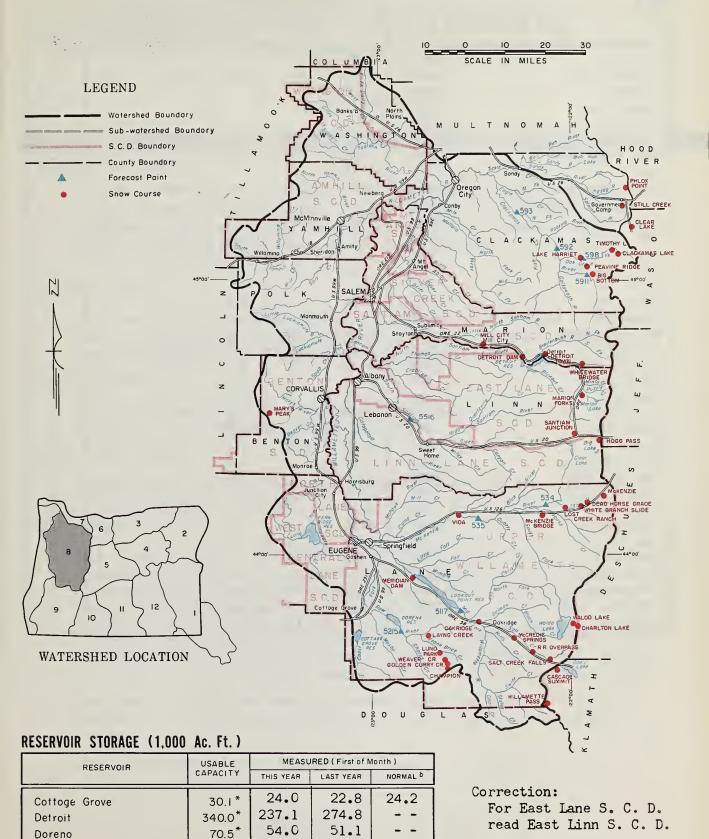
STREAM or AREA	FLOW P	ERIOD	REMARKS
O'MEAN OF AMER	SPRING SEASON	LATE SEASON	NEWANKS
Calapooya Clackamas McKenzie Mollalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Average Excellent Excellent Excellent Average Average Excellent	Average Average Average Average Average Average Average Average	

No. NAME		FORECAST POINT	FORECAST	FORECAST	b	THIS YEAR
15C	NO.	NAME ·			NORMAL ^b	AS PERCENT OF NORMAL
15C	5911	Clackamas at Bia Bottom	185	April-Sept.	164	113
Section					133	113
592 Clackamas above Three Lynx 650 April-Sept. 599 109 534 McKenzie at Mckenzie Bridge 63C April-Sept. 565 112 535 McKenzie near Vida 1340 April-Sept. 1195 112 598 Oak Grove Fork above Power Intake 200 April-July 978 112 598 Oak Grove Fork above Power Intake 200 April-Sept. 186 108 160 April-July 145 110 99 5215 Row near Dorena 100 April-Sept. 101 99 554 Santiam, North at Mehama ^e 950 April-Sept. 842 113 5516 Santiam, South at Waterloo 565 April-Sept. 558 101 5117 Willamette, Mid. Fork below North Fork near Oakridge 900 April-Sept. 798 113 516 Willamette at Salem 5000 April-Sept. 4355 115	593	Clackamas near Cazadero	860		777	111
560 April-July 507 110					669	114
560 April-July 507 110 534 McKenzie at Mckenzie Bridge 630 April-Sept. 565 112 480 April-July 430 112 112 1255 McKenzie near Vida 1340 April-Sept. 1195 112 1095 April-July 978 112 112 1095 April-July 978 112 110	592	Clackamas above Three Lynx	650	April-Sept.	599	109
Agril-July A30 112 1340 April-Sept. 1195 112 1095 April-July 978 112 112 1095 April-July 978 112 112 160 April-Sept. 186 108 160 April-July 145 110		,	560	April-July	507	110
535 McKenzie near Vida 1340 April-Sept. 1195 112 1095 April-July 978 112 598 Oak Grove Fork above Power Intake 200 April-Sept. 186 108 160 April-July 145 110 5215 Row near Dorena 100 April-Sept. 101 99 95 April-July 96 99 554 Santiam, North at Mehamae 950 April-Sept. 842 113 845 April-July 748 113 845 April-July 525 101 510 Santiam, South at Waterloo 565 April-July 525 101 5117 Willamette, Mid. Fork below North Fork 900 April-Sept. 798 113 516 Willamette at Salem 5000 April-Sept. 4355 115	534	McKenzie at Mckenzie Bridge		April-Sept.	565	112
1095 April-July 978 112 108 160 April-Sept. 186 108 110 160 April-Sept. 1978 110 110 110 125 130 130 145 130			480	April-July	430	112
598 Oak Grove Fork above Power Intake 200 April-Sept. 186 108 5215 Row near Dorena 100 April-July 145 110 5215 Row near Dorena 100 April-Sept. 101 99 95 April-July 96 99 99 554 Santiam, North at Mehama ^e 950 April-Sept. 842 113 845 April-July 748 113 113 5516 Santiam, South at Waterloo 565 April-Sept. 558 101 5117 Willamette, Mid. Fork below North Fork 900 April-Sept. 798 113 516 Willamette at Salem 5000 April-Sept. 4355 115	535	McKenzie near Vida	1 1	April-Sept.	1195	
160 April-July 145 110 100 April-Sept. 101 99 95 April-July 96 99 950 April-July 748 113 113 113 113 113 113 114 115 115 116				April-July	978	
5215 Row near Dorena 100 April-Sept. 101 99 95 April-July 96 99 554 Santiam, North at Mehamae 950 April-Sept. 842 113 845 April-July 748 113 5516 Santiam, South at Waterloo 565 April-Sept. 558 101 5117 Willamette, Mid. Fork below North Fork near Oakridge 900 April-Sept. 798 113 800 April-July 705 113 516 Willamette at Salem 5000 April-Sept. 4355 115	598	Oak Grove Fork above Power Intake		April-Sept.	186	
95 April-July 96 99 950 April-Sept. 842 113 845 April-July 748 113 115				April-July	145	
554 Santiam, North at Mehama ^e 950 April-Sept. 248 842 113 5516 Santiam, South at Waterloo 565 April-Sept. 258 101 5117 Willamette, Mid. Fork below North Fork near Oakridge 900 April-Sept. 798 113 516 Willamette at Salem 5000 April-July 705 113	5215	Row near Dorena	1 .	April - Sept.	101	
Santiam, South at Waterloo 845 April-July 748 113 101				April-July		
5516 Santiam, South at Waterloo 565 April-Sept. 558 101 5117 Willamette, Mid. Fork below North Fork near Oakridge 900 April-Sept. 798 113 516 Willamette at Salem 5000 April-Sept. 4355 115	554	Santiam, North at Mehama ^e		April-Sept.	. 842	
530 April-July 525 101				April-July		
5117Willamette, Mid. Fork below North Fork near Oakridge9C0 80Q 516April-Sept. April-July 	5516	Santiam, South at Waterloo				
near Oakridge 800 April-July 705 113 516 Willamette at Salem 5000 April-Sept. 4355 115					1	
516 Willamette at Salem 5000 April-Sept. 4355 115	5117	Willamette, Mid. Fork below North Fork	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
The second secon		near Oakridge		April-July		
4500 April-July 3863 116	516	Willamette at Salem				
			4500	April-July	3863	116

^o Assuming normal meteorological conditions. ^b/938-'52,15 year period. ^cNumber of years in 1938-'52 period. ^dNot scheduled.

^e Corrected to notural flow. ^f Aerial snow depth gage; water content estimated.

WILLAMETTE WATERSHEDS



74.0"*

91.5

273.8

93.1

262.8

94.2*

350.0*

** 1938-41 excepted.

Doreno

Fern Ridge

Lookout Point

Storage spoce reserved for flood contral.

SNOW		CURRENT INFORMATION		PAST R	ECORD		
SNOW COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONTENT (Inches)		YEARS OF C
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL D	RECORD
Big Bottom	2118	4-30	0	0.0	0.0		2
Cascade Summit	4880	4-28	64	30.8	18.2	32.7	7
Champion	4500	d					
Charlton Lake	5750	d					
Clackamas Lake	3400	d					
Clear Lake	3500	4-27	0	0.0	1.0		3
Dead Horse Grade	3800	4-26	12	5.2	0.0		0
Detroit Town	1600	4-28	0	0.0	0.0		2
Detroit Dam	1580	4-28	0	0.0	0.0		2
Golden Curry Creek	3136	d					1
Hogg Pass	4755	4-28	100	48.5	32.3	57.2	6
Lake Harriet	2045	4-30	0	0.0	0.0		2
Layng Creek	1200	d					
Lost Creek Ranch	1746	4-26	0	0.0	0.0		0
Lund Park	1740	d					
Marion Forks	2730	4-28	0	0.0	0.0		4
Marys Peak	3620	d					
Mc Credie Springs	2 120	4-28	C	0.0	0.0		3
McKenzie	4800	4-26	93	55.6	35.7		0
McKenzie Bridge	1372	4-26	0	0.0	0.0		C
Meridian Dam	750	4-28	0	0.0	0.0		2
Mill City	826	4-28	0	0.0	0.0		2
Oakridge	1310	4-28	0	0.0	0.0		2
Peavine Ridge	3500	4-30	15	6.9	T	17.5	7
Phlox Point	5600	4-28	160	83.1	52.0	59.1	13
Railroad Overpass	2750	4-28	0	0.0	0.0		2
Salt Creek Falls	4000	4-28	Т	T	T		3
Santiam Junction	3990	4-28	22	10.5	0.0	19.1	5
Still Creek	3700	4-29	26	12.1	12.4	14.9	12
Timothy Lake	3295	4-30	12	5.5	0.0		0
Vida	800	4-26	0	0.0	0.0		C
Waldo Lake	5500	d					
Weaver Creek	2440	d					
White Branch Slide	2800	4-26	0	0.0	0.0		0
Whitewater Bridge	2175	4-28	0	0.0	0.0		2
Willamette Pass	5600	4-29	110	50.3	35.1		4

WATER SUPPLY OUTLOOK ROGUE, UMPQUA WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

The outlook for adequate water supplies in the Rogue-Umpqua watersheds is only slightly affected by the unusual pattern of April precipitation. The precipitation was below normal in valley areas and normal or greater in the mountain areas. Adequate June rains will be needed to keep streamflow normal in the smaller, low-elevation streams.

SNOW-COVER

Water content of the mountain snow-pack increased slightly at the higher elevations. Cool temperatures held snow-melt runoff to near normal in the Rogue while excess precipitation brought flow of the Umpqua up to 124 percent of the April average.

SOIL-MOISTURE

Exceptionally wet soils in the upper watersheds will favor a well sustained runoff from snow-melt and any subsequent precipitation.

RESERVOIR STORAGE

Although reservoired water supplies are somewhat less than last year at this date, they are 129 percent of average.

STREAMFLOW

Forecast of streamflow for the irrigation season (April through September) are all at normal or above normal except for the inflow to Hyatt Prairie Reservoir which is expected to be 80 percent of average. The Talent Irrigation District may be short of water in the late season unless adequate rains are received.

Flow of the Rogue at Raygold is forecast at 106 percent average. Low flow of the Rogue at Savage Rapids Dam is not expected to fall below 950 second-feet - therefore canal alternation should be unnecessary for the Grants Pass Irrigation District.

The Illinois and Applegate Rivers will produce greater than normal water supplies this year and the Little Applegate should produce considerably more water than last year.

Flow of the North Umpqua is forecast at 104 percent of average.

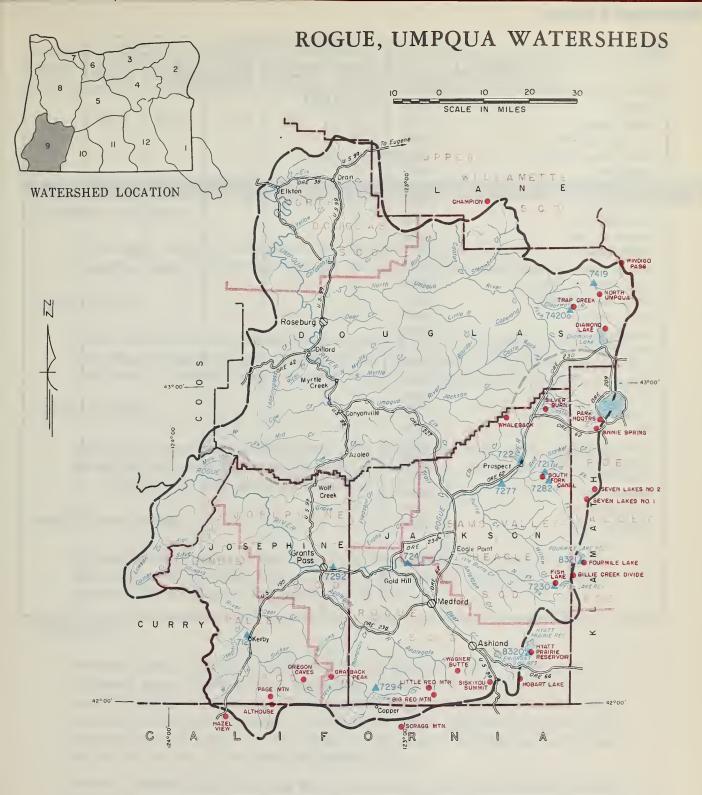
Report prepared by

W.T. Frost and Manes Borton
U.S. Deportment of Agriculture, Soil Conservation Service
209 S.W. Frith Avenue, Partland, Oregon

STREAM OF AREA	FLOW PERIOD		DEMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	REMARKS
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Little Cow Creek Deer Creek Eogle Point I. D. Elk Creek Emigront Creek (obove Reservoir) Evons Creek Gold Hill I. D. Gronts Poss I. D. Grave Creek Illinois River, East Fork Illinois River, West Fork Medford I. D. Neil Creek Red Blonket Creek Rogue River Rogue River Rogue River Volley I. D. Sucker Creek Table Rock I. D. Tolent I. D. Thompson Creek Wogner Creek Williams Creek			Low flow of Rogue at Savage Rapids Dam not expected to fall below 950 c.f.s.

FORECAST POINT		FORECAST	FORECAST	NORMAL	THIS YEAR AS PERCENT
NO.	NAME	THIS YEAR	PERIOD	NORMAL	OF NORMAL
7294	Applegate near Copper	155	April - Sept.	116 ⁹	134
7420a	Clearwater above Trap Creek ^e	67	April-Sept.	64	105
8321	Fourmile Lake net inflowe	8.0	April - Sept.	7.0	114
8320	Hyatt Reservoir net inflow ^e	4.8	April - Sept.	6.0	80
712	Illinois River near Kerby ^e	182	April – Sept.	181	110
7230	Little Butte, North Fork below Fish Loke ^e	15.0	April – Sept.	14.9	100
722	Roque obove Prospect	335	April – Sept.	316	106
		280	April – July	265	106
7217	Rogue, Middle Fork neor Prospect ^e	80	April – Sept.	74	108
		63	April – July	58	109
7282	Rogue, South Fork neor Prospect ^e	81	April – Sept.	76	107
		70	April — July	65	108
7277	Rogue below South Fork	720	April - Sept.	680	106
		585	April – July	553	106
724	Rogue ot Roygold near Centrol Point	960	April-Sept.	905	106
		800	April – July-	760	105
7292	Rogue at Gronts Pass	900	April-Sept.	852	106
7419	Umpqua, North Fork below Loke Creek ^e	170	April – Sept.	164	104

^{*}Assuming normal meteoralogical conditions. *1938-'52,15 year period. *Number at years in 1938-'52 period. *Not scheduled. *Corrected to natural flow. *Aerial snow depth gage; water content estimated. *1938-'39 excepted happens delayed.



LEGEND

Wotershed Boundary
Sub-watershed Boundary
S. C. D. Boundary
County Boundary
Forecast Point
Snow Course

RESERVOIR STORAGE (1.000 Ac. Ft.)

MEDERITORN STORAGE (1,00	0 No. 1 C. 7					
RESERVOIR	USABLE	MEASURED (First of Month)				
RESERVOIR	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b		
Emigrant Gap	8.3	7.6	8.4	8.2		
Fish Lake	7.8	7.2	8.1	5.6		
Fourmile Lake	16.1	11.2*	16.6	9.6		
Hyatt Prairie	16.1	16.6	18.0	9.7		
*April 1, 1958						

WONS		CURF	RENT INFORMAT	ION	PAST R	ECORD	
SNOW COURSE		DATE OF	SNOW DEPTH	SNOW DEPTH WATER CONTENT (Inc.		ENT (Inches)	YEARS OF
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL D	RECORD
Althouse	4530	d					
Annie Spring	6018	4-27	128	59.4	34.9	42.8	12
Big Red Mountoin	6500	d					
Billie Creek Divide	5300	h					
Chompion	4500	d					
Diamond Loke	5315	4-24	58	24.6	11.4	18.1	8
Fish Lake	4865	h					
Fourmile Lake	6000	h					
Graybock Peak	6000	d					
Hazel View	2500	d					
Hobart Loke	5010	d					
Hyatt Prairie Reservoir	4900	d					
Little Red Mountain	6500	d					
North Umpquo	4215	4-23	16	5.6			C
Oregon Caves	4000	d				-	
Page Mountain	4045	d	İ				
Park Headquarters	6450	4-27	166	80.2	51.9	62.2	9
Scragg Mountain	6200	d					
Seven Lakes No. 1	6800	d					
Seven Lakes No. 2	6200	d					
Silver Burn	3720	4-26	15	6.2			C
Siskiyou Summit	4630	d	1				
South Fork Canal	3500	4-26	0	0.0			1
Trap Creek	3800	4-23	С	0.0			1
Wogner Butte	6900	4					
Wholeback	5140	d					
Windigo Poss	5800	4-28	117	55.6	44.3		4

WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Water supply outlook for farmers in the Klamath Basin remain excellent to abundant in spite of short precipitation in April. Reservoired water supplies are excellent.

SNOW-COVER

Water content of the high mountain snow-pack is 34 percent greater than average and 64 percent greater than last year at this date. Snow in the high Cascades continued to increase during the month rather than decrease as is normal.

SOIL-MOISTURE

Moisture has penetrated watershed soils well beyond the usual depth. However, the surface soils have begun to dry out in recent weeks. Satisfactory soil-moisture will contribute to well sustained streamflow.

RESERVOIR STORAGE

Although water is being spilled from Clear Lake, Gerber, and Upper Klamath Lake Reservoirs, the water now in storage is 131 percent of average. Smaller reservoirs and stock ponds are reported to be full.

STREAMFLOW

Forecast of major streams in Klamath Basin are all much above normal for the irrigation season, April through September. Inflow to Klamath Lake in April was 153 percent normal and forecasts indicate the remaining summer flow should be about 143 percent of normal. Forecasts for streams contributing to the lake are also high - Sprague River is forecast at 139 percent average and the Williamson at 143 percent for the April-September period.

Inflow to Gerber and Clear Lake Reservoirs has been much above normal during April and the summer flows have been forecast at 133 and 126 percent average respectively.

Report prepared by

W. T. Frast and Manes Barfan U. S. Department of Agriculture, Soil Conservation Service 209 S. W. Fifth Avenue, Partland, Oregon

STREAM or AREA	FLOW P	ERIOD	REMARKS
STREAM OF AREA	SPRING SEASON	LATE SEASON	
Ft. Klamath Valley	Excellent	Average	
Lost River (Clear Lake)	Excellent	Average	
Lost River (Gerber)	Excellent	Average	
Lost River (Willow Reservoir)	Excellent	Average	
Sprague River	Excellent	Average	
Upper Klamath Lake	Excellent	Average	
Williamson River	Excellent	Average	

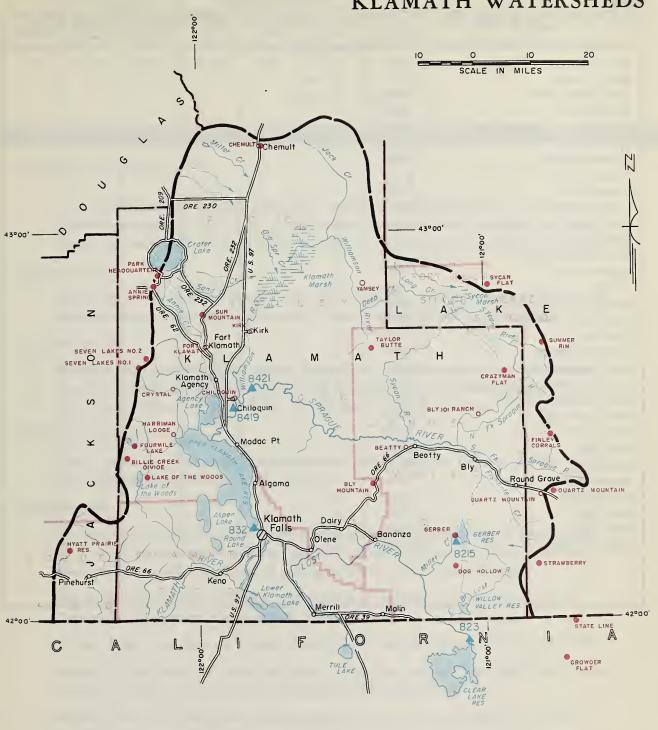
	FORECAST POINT	FORECAST	FORECAST	NORMAL	THIS YEAR
NO.	NAME	THIS YEAR	PERIOD	(1011)	OF NORMAL
823	Clear Lake Reservoir net ınflow ⁹	62 d	April - Sept. March-July	49 86	126
8215	Gerber Reservoir net inflow ⁹	32 d	April - Sept. March-July	24 42	133
8421	Sprague near Chiloquin	350	April - Sept.	253	139
832	Upper Klamath Lake net inflow ^g	750 605	April-Sept. April-July	526 424	143 143
8419	Williamson below Sprague River	580 485	April-Sept. April-July	406 340	143 143

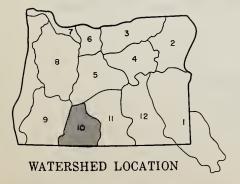
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED (First of Month)				
RESERVOIR	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b		
Clear Lake Gerber Upper Klamath Lake * Spilling	440.2 ^h 94.0 584.0	455.4* 93.9* 516.2*	394.8 92.6 553.9	253.3 60.6 499.9		

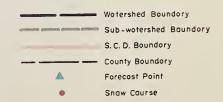
^a Assuming normal meleorological conditions. b/938-'52,15 year period. ^aNumber of years in 1938-'52 period. ^aNot scheduled. ^aCorrected to natural flow. ^aAerial snow depth gage; water content estimated. ^aFrom COPCO or U.S.B.R. records of inflow. ^aFlash-boards increase capacity to 513.0 iReport delayed.

KLAMATH WATERSHEDS





LEGEND



COPCO Snaw Station

NOW		CURF	RENT INFORMAT	LION	PAST RECORD)	
SNOW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONT	ENT (Inches)	YEARS OF	
NAME	ELEVATION	SURVEY	(Inches)	(inches)	LAST YEAR	NORMAL D	RECORD	
Annie Spring	6018	4-27	128	59.4	34.9	42.8	12	
Beatty (Copca)	4300	d						
Billie Creek Divide	5300	i						
Bly Mountoin	5090	i						
Bly IOI Ranch (Capca)	4800	d						
Chemult	4760	4-29	6	2.5	0.0	0.6	5	
Chiloquin (Copco)	4187	d	,					
Crazyman Flat f	6100	d						
Crowder Flat	5200	d						
Crystal (Copco)	4200	d						
Dog Hallaw [†]	4900	d						
Finley Corrals ^f	6000	d						
Fart Klamath (Copco)	4150	d						
Faurmile Lake	6000	i				9		
Gerber	4850	4-30	0	0.0			0	
Harriman Lodge (Copca)	4200	d						
Hyatt Prairie Reservair	4900	d						
Kirk (Copco)	4533	d						
Lake of the Woods	4960	i						
Park Headquarters	6450	4-27	166	80.2	51.9	62.2	9	
Quartz Mountain	5320	4-28	0	0.0	0.0		2	
Quartz Mountain (Copco)	5504	4-28	0	0.0	0.0		2	
Seven Lakes Na. I	6800	d					-	
Seven Lakes Na. 2	6200	d					i	
State Linef	5750	d						
Strawberry	5600	d						
Summer Rim	7200	d						
Sun Mountoin	5350	d						
Sycan Flat [†]	5500	d						
Taylar Butte	5100	d						
Yamsey (Copco)	4600	d						
tamsey (Copco)	4000	d						

WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

April precipitation, ranging from about normal in the south end to several times normal in the north, adds to an already adequate water supply outlook for Lake County farmers. Reservoired water supplies are excellent throughout the county.

SNOW-COVER

An aerial survey of snow-cover in mid-April coupled with month-end observation indicates present mountain snow-pack is well above normal for this date.

SOIL-MOISTURE

Moisture has penetrated beyond the fourth foot in watershed soils and will favor a well sustained streamflow. This factor is expected to counter-balance the lack of low-elevation snow in the Silver Lake - Fort Rock area.

RESERVOIR STORAGE

Drews Creek and Cottonwood Reservoirs are full as are the numerous small reservoirs and ponds elsewhere in the county.

STREAMFLOW

------ M - 1853 - 11

Forecasts of streamflow are all well above normal. Drews Creek is forecast at 103 percent of average April through July. Thomas Creek flow should be well above normal while Dry Creek should produce its usual water supply.

Chewaucan River will discharge 123 percent of normal. Crooked and Willow Creeks should produce about normal flows.

Silver, Buck, and Duncan Creeks should discharge their usual amounts of water.

Warner Valley lands will receive flows 119 percent normal from Deep and Honey Creeks. Water will flow clear to Bluejoint Lake again this year.

Water levels of Silver Lake, Summer Lake, and Abert Lake should rise to new record levels again this year.

Report prepared by

W. T. Frost and Mones Barton U. S. Deportment of Agriculture, Soil Conservation Service 209 S. W Fifth Avenue, Portland, Oregon

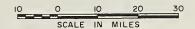
STREAM OF AREA	FLOW I		REMARKS
	SPRING SEASON	LATE SEASON	
Chewaucan River	Excellent	Average	
Crooked Creek	Average	Average	
Deep Creek	Excellent	Average	
Dry Creek	Average	Average	
East Side Goose Lake	Excellent	Average	
Guano Lake	Average	Average	
Honey Creek	Excellent	Average	
Lakeview Water Users Association	Excellent	Average	
Rock Creek	Average	Average	
Silver - Buck Creeks	Average	Average	
Summer Lake	Excellent	Average	
Thomas Creek	Excellent	Average	
Twentymile Creek	Excellent	Average	
Warner Lakes	Excellent	Average	

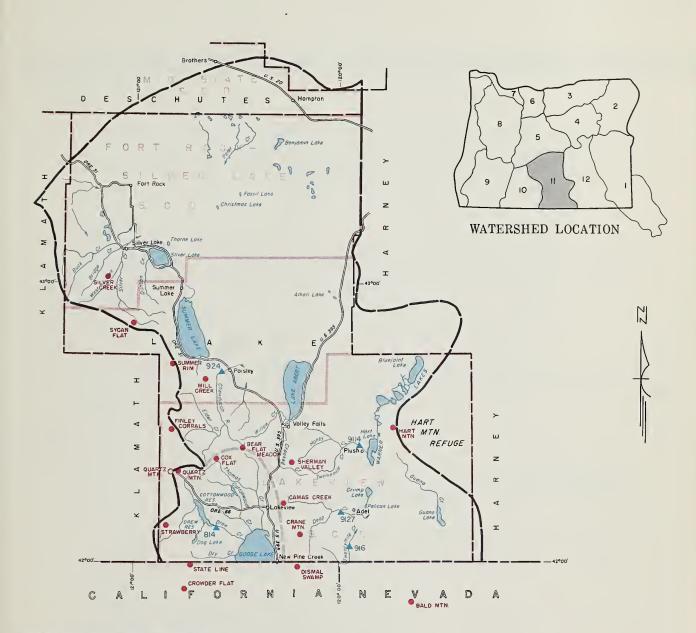
NO.	FORECAST POINT NAME	FORECAST THIS YEAR	FORECAST PERIOD	NORMAL ^b	THIS YEAR AS PERCENT OF NORMAL
924 9127 814 9114 916	Chewaucan near Paisley Deep above Adel Drew Reservoir net inflow Honey near Plush Twentymile near Adel	90 80 31 d 18.5 24	April — June April — June April — July March — July April — June April — June	73 67 30 ⁹ 44 ⁹ 15.6 ^h 21 ⁱ	123 119 103 119 114

SNOW		CURR	ENT INFORMAT	TION	PAST F	RECORD	
SNOW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONT	ENT (Inches)	YEARS OF C
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL b	RECORD
Bald Mountain Bear Flat Meadow f Camas Creek Cox Flat f Crane Mountain f Crowder Flat f Dismal Swamp f (Calif.) Finley Corrals f Hart Mountain f Mill Creek Quartz Mountain (COPCO)	6720 5900 5720 5750 6020 5200 7000 6000 6350 6200 5504 5320	d d d d d d d 4-28 4-28	0 0	0.0	0.0		2 2
Sherman Valley ^f Silver Creek State Line ^f Strawberry Summer Rim Sycan Flat	6600 4900 5750 5600 7200 5500	d d d d d					

^a Assuming narmal metearolagical conditions. b 1938-'52, 15 year periad. ^aNumber at years in 1938-'52 periad. ^aNot scheduled. ^aCorrected to natural flaw. ^aAerial snaw depth gage; water content estimated. ^a1942, '43 and '45 excepted ^a1942 excepted ^a1938-'40 excepted.

LAKE COUNTY, GOOSE LAKE WATERSHEDS





RESERVOIR STORAGE (1,000 Ac. Ft.)

MESERVOIR STORMUL (1,000	No. 11.7					
RESERVOIR	USABLE	MEASURED (First of Month)				
NESENVOIN	CAPACITY	THIS YEAR	LAST YEAR	NORMAL b		
Cottonwood Drew	4.1 62.5	4.1 62.5	4.1 64.4	3.3* 56.9**		
* 1942-43 excepted ** 1942 excepted						

LEGEND Wotershed Boundary Sub-wotershed Boundary S.C.D. Boundary County Boundary Forecast Point Snow Course COPCO Snow Station

WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of MAY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Abnormally heavy April precipitation has added to the adequate water supply outlook previously forecast for farmers irrigating lands in Harney Basin. Streamflow is forecast to be well above normal for the Blitzen and Silvies. Smaller streams are more dependent upon adequate summer rains to govern their late season flow.

SNOW-COVER

Snow continued to accumulate on the highest elevations and cool weather retarded snow-melt. Present snow-cover is well above normal and will support excellent streamflow.

SOIL-MOISTURE

Moisture content of the watershed soil-mantle is excellent. Penetration beyond the fourth foot is reported in the deeper soil areas. This moisture will favor well sustained streamflow.

STREAMFLOW

Flow of the Silvies River is forecast at 116 percent of average for the April through September period. Silver Creek is also expected to discharge more than its normal water supply.

Outlook for the smaller streams east and north of Burns (Poison, Soldier, Prather, Mill, Coffeepot, Rattlesnake and Cow Creeks) is good with near average flows expected.

The Blitzen is forecast at 130 percent average and Catlow Valley should also have better than average water supplies.

Trout Creek and Wildhorse Creek are forecast to produce better than average streamflow.

Report prepared by .

W T. Frast and Manes Bartan

U. S. Department at Agriculture, Sail Conservation Service 209 S. W. Fifth Avenue, Partland, Oregon

FLOW	PERIOD	REMARKS
SPRING SEASON	LATE SEASON	REMARKS
Excellent	Average	
Average	Average	
Excellent	Average	
Average	Average	
Excellent		
Excellent		
Average		
Excellent		
Excellent	Average	
	Excellent Average Excellent Average Average Excellent Excellent Excellent Average Excellent	Excellent Average Average Average Excellent Average Average Average Average Average Excellent Average Excellent Average Average Average Excellent Average Excellent Average Excellent Average

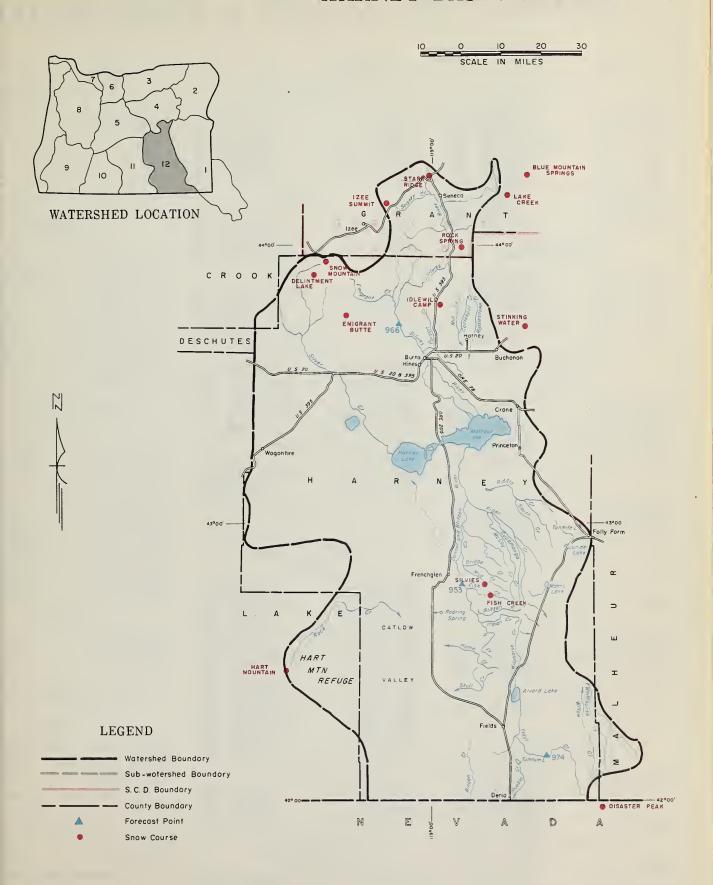
NO.	FORECAST POINT NAME	FORECAST THIS YEAR	FORECAST PERIOD	NORMAL ^b	THIS YEAR AS PERCENT OF NORMAL
953	Donner und Blitzen near Frenchglen	86	April - Sept.	66	130
966	Silvies near Burns	118	April - Sept.	102	116
974	Trout near Denia	13	April ⁻ Sept.	9.6	135

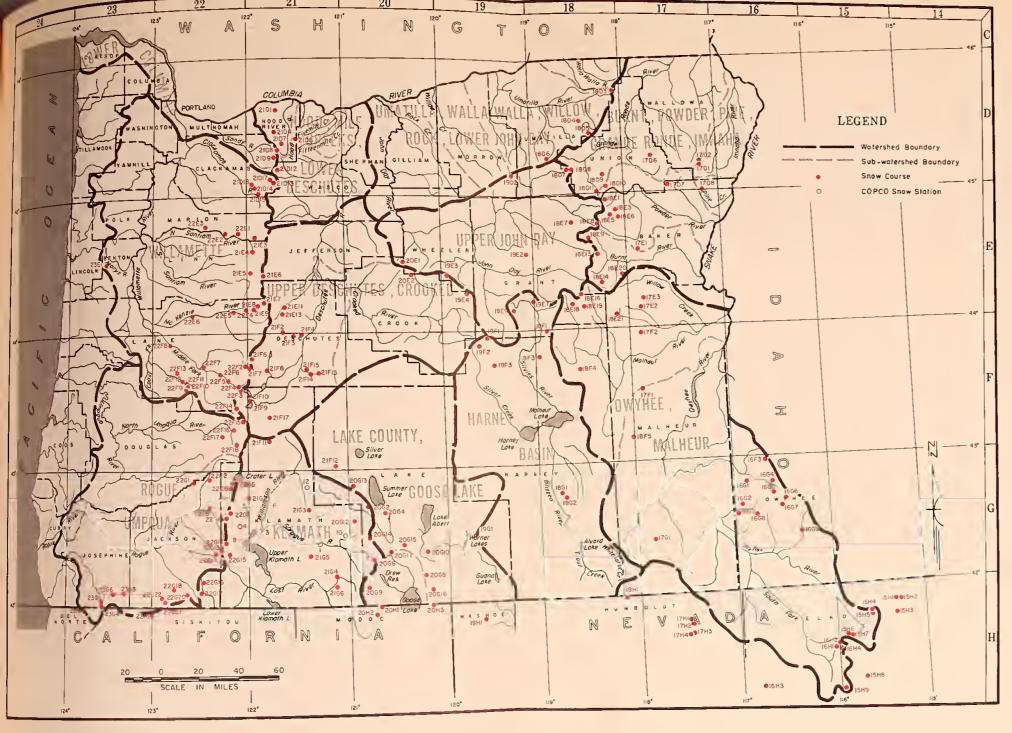
SNOW	CURRENT INFORMATION			PAST R			
SNOW COURSE		DATE OF SNOW DEPTH		WATER CONTENT	WATER CONTENT (Inches)		YEARS OF C
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL b	RECORD
Blue Mauntain Springs	5900	4-28	49	21.8	5.0		2
Delintment Lake	5600	d					
Disaster Peak	6500	d					
Emigrant Butte	5000	d					
Fish Creek	7900	d					
Hart Mauntain ^f	6350	d					
Idlewild Camp	5200	d					
Izee Summit	5293	4-25	19	8.2	0.0		2
Lake Creek	5120	d				- 0	
Rack Spring	5100	d					
Silvies	6900	d					
Snaw Mauntain	6300	d					
Starr Ridge	5150	4-25	0	0.0	0.0		2
Stinking Water	4800	5-1	0	0.0	0.0		0

^a Assuming narmal meteorological conditions. b/938-'52,/5 year period. ^a Number of years in /938-'52 period. ^a Not scheduled.

^{*} Corrected to natural flow. † Aerial snow depth gage; water content estimated.

HARNEY BASIN WATERSHEDS





Notes Acres	Location Elex Sec Tisp Rige	Number Name	Location Elev Sec Twp Age	Number	Name	Localia Sec Twp		Elev	Number	Nome		Lacotian Two Rige	Elev
OWYHEE, MALHEUR V		OWYHEE RIVER	(Ida) 23 10S 4W 5450		BURNT, POWDER, PINE, RONDE, IMNAHA WATER BURNT RIVER		•		1701 1702	GRANDE HONDE H Ameroid Lake No. 1 Ameroid Lake No. 2	16 16	4S 45E 4S 45E 7S 37E	E 7480 E 7000
150 titelope Ridge 133 barren Valley 157 Seattle Creek 151 Bar Creek 152 Sig Bend 153 Soutsein, Lower 153 Daniekin, Upper 153 Cliffs	(Ida) 32 88 1W 5900 26 278 38E 4200 (Ida) 10 118 1E 5700 (Nev) 31 46N 56E 6700 (Nev) 30 45N 56E 6700 (Nev) 25 45N 39E 7200 (Nev) 11 45N 39E 7200 (Nev) 18 9S 5H 5200 (Nev) 8 47N 34E 6500	15H6 Rodeo Flat 75 76 Creek 17F1 Shumway Ranch 16F3 Silver City 18G1 Silvies 16G1 South Mountain No. 2 15H9 Taylor Canyon 15H8 Tremewan Ranch 16G4 Triangle	(Nev) 6 4,4N 58E 7100 29 23S 39E 4400 (Ida) 6 5S 3W 6400 35 32S 32E 6900 2 (Ida) 35 7S 5W 6340 (Nev) 35 39N 53E 6200 (Nev) 9 39N 55E 5700 (Ida) 25 7S 3W 5150	18E13 17E1 18E20 18E8 18E9	Barney Creek Blue Mountain Summit Dooley Hountain Eldorado Pass Gold Center Tipton POWOER RIVER	6 12S 32 11S 20 14S 21 9S 34 10S	36E 40E 38E 36E 35≹E	5098 5430 4600 5340 5100	18E1 18D9 18D11 18D8 1806 1805 1706 18D7 18010 17D7 18D3	Anthony Lake Heaver Reservoir Camp Carson County Line Lucky Strike Meacham Mose Spring Schoolmarm Summit Springe Taylor Green Tollgate	28 28 28 24 & 25 28 29 3	5S 37E 6S 36E 4S 34E 3S 32E 1S 35E 3S 41E 4S 34E 6S 37E 6S 42E	E 5340 E 5970 E 4800 E 5050 E 4300 E 5850 E 4779 E 6000
Tan Creek Fox Creek Try Canyon Cold Creek Transcreek Transcreek Try Canyon Try Cany	4 33S 33E 7900 (Nev) 33 46N 58E 6800 (Nev) 31 43N 54E 6700 (Nev) 31 45N 56E 6600 (Nev) 22 44N 39E 7800	MALHEUI 18E14 Barney Creek 18E16 Blue Mountain Spring 17E3 Bonita 18E21 *Bully Creek	16 14S 36E 5950	18E1 18E5 17E1 18E3 18E8 18E6	Anthony Lake Bourns Dooley Mountain Eilertson Meadows Gold Center	33 8S	37E 40E 38E 36E	5800 5430 5400 5340	1701 1702	IMNAHA RJ Aneroid Lake No. 1 Aneroid Lake No. 2	16	4S 45E 4S 45E	E 7480
Jack Creek, Lower Jack Creek, Lower Jack Creek, Upper Jack Creek, Upper Jack Creek Jack	36 36S 41E 4300 (1da) 31 8S 2W 5800 (Nev) 18 42N 53E 6800 (Nev) 9 42N 53E 7250 (Nev) 28 42N 53E 8420 (1da) 19 10S 5W 4800 (Nev) 18 44N 40E 6700 (Nev) 18 39N 46E 7200	17E2 Clover Creek 17F2 **Cottonwood-Indian 18E19 Crane Prairie 18E20 Eldorado Pass 18E18 Lake Creek 18F1 Rock Spring 17F1 Shumway Ranch	10 198 39E 4320 24 168 34E 5375 20 148 38E 4600 10 168 33½E 5120 23 188 32E 5100 29 238 39E 4400 33 218 34E 4800	18010 1707	Goodrich Lake Summit Springs Taylor Green PINE CREEK Schneider Headows	9 6S 3 6S		6000 5740	1902	UMATILLA, WALLA WALL LOWER JOHN DAY W UMATILLA Arbuckle Mountain	ATERSHEOS RIVER	v, ROCK, (3) 4S 29E	

MAP and INDEX to OREGON SNOW COURSES

	Sec Two Rge	Sec Two Rge	Sec Twp Rge
UMATILLA RIVER (Con	nt'd.)	WILLAMETTE WATERSHEDS (8)	KLAMATH RIVER (Cont'd.)
1804 Emigrant Springs 1806 Lucky Strike 1805 Mecham 24.8 1803 Tollgate WALLA WALLA RIVE		ClaCkamas RIVER 21015 Big Bottom 25 68 7E 21013 Clackamas Lake 35 58 8½E 21012 Clear Lake 29 43 9E 21016 Lake Harriet 4 65 7E 21014 Peavine Ridge 14 15 68 7E 2108 Phlox Point 6 38 9E 2109 Still Creek 25 35 8½E 21017 Timothy Lake 26 55 8E 21017 Timothy Lake 26 55 21017 Timothy Lake	20H2 *Crowder Flat (Cal) 30 47N 11E 520 2166 *Dog Hollow
1803 Tollgate WILLOW CREEX	32 4N 38E 5070	21014 Peavine Ridge	1500 22015 Lake of the Woode 11 375 5E 496 5600 2205 Park Headquarters 8 318 6E 645 3700 2006 Quartz Mountain 2 383 16E 532 3295 22010 Seven Lakes No. 1 3 345 5E 686 386 387 388
1902 Arbuckle Mountain	33 4S 29E 5400	SANTIAM RIVER	22011 Seven Lakes No. 2 26 338 5E 620 20H1 *State Line (Cal) 21 48N 11E 57' 2003 Strawberry 1 108 16F 57'
UPPER JOHN DAY WATER:		22El Oetroit (town) 1 108 5E 22E2 Oetroit DAm 7 108 5E 21E6 Hogg Pass 24 138 7½ 21E4 Marion Forks 28 118 7E 22E3 Mill Gity 29 98 3E	1580 21G2 Sun Mountain 22 32S 7 E 539
18E1 Anthony Lake 1902 Arouckle Mountain 19E2 Reech Creek Summit 18E16 Blue Mountain Spring 18E13 Blue Mountain Summit 19E3 Oerr 18E11 Oivie Springs	18 7S 37E 7125 33 4S 29E 5400	21E4 Marion Forks 24 135 7½ 22E3 Mill City 29 95 3E 21E5 Santiam Junction 14 135 7E 21E3 Whitewater Bridge 28 105 7E	826 3990 THE CALIFORNIA OREGON 2175 FOWER COMPANY'S SNOW STATIONS
19E2 Beech Creek Summit 18E16 Blue Mountain Spring 18E13 Blue Mountain Summit.	4 12S 30E 4800 21 15S 35E 5900 6 12S 36E 5098	McKENZIE RIVER	
1983 Oerr 18811 Oixie Springs 1888 Cold Center 1989 Izee Summit 1806 Lucky Strike 2081 Marks Creek 2082 Ochoco Meadows 1887 Olive Lake 1807 Schoolmarm 1991 Snow Mountain 1947 Starr Ridge 1889 Tipton	14 135 23E 5670 28 11S 34E 6650 21 9S 36E 5340 28 16S 29E 5293 28 3S 32E 5050 25 12S 19E 4540 21 13S 20E 5200 14 9S 33½E 6000	21E8	1 Bestty (COPCO) 22 368 12E 430 3800 3 Chiloquin (COPCO) 22 355 14E 480 1746 4 Crystal (COPCO) 26 345 6E 420 4800 5 Fort Klamath (COPCO) 22 338 7½E 411 1372 8 Harriman Lodge (COPCO) 3 368 6E 420 800 6 Kirk (COPCO) 1 338 75E 451 2800 9 Quartz Mountain (COPCO) 33 378 16E 556 12 Yamsey (COPCO) 20 318 11E 460
1807 Schoolmarm 19F1 Snow Mountain 19E7 Starr Ridge 18E9 Tipton	28 4S 34E 4775 1 19S 26E 6300 20 15S 31E 5150 34 10S 35½E 5100	22F3 Cascade Summit 7 238 6E 21F7 Charlton Lake 23 218 6E 22F6 McCredie Springs 36 218 4E 22F8 Meridian Oam 13 198 1W 22F7 Oakridge 16 218 3E 22F5 Railroad Overpaes 27 228 5E 22F4 Salt Creek Falls 33 228 6E 22F2 Waldo Lake 15 218 6E	LAKE COUNTY, GOOSE LAKE WATERSHEOS (II) 5750 2120 GOOSE LAKE
UPPER DESCHUTES, CROOKED		22F8 Meridian Oam 13 19S 1W 22F7 Oakridge 16 21S 3E 22F5 Railroad Overpaes 27 22S 5E	750 1310 2750 20G15 *Bear Flat Meadow 27 36S 19E 590
UPPER DESCHUTES R	IVER	22F4 Salt Creek Falls 33 22S 6E 22F2 Waldo Lake 15 21S 6E 22F14 Willamette Pass 33 24S 5E	1310 2750 20G15 *Bear Flat Meadow 27 36\$ 19E 590 20G00 20G8 Camas Creek 5 39S 21E 572 5500 20G11 *Cox Flat 16 375 18E 575 5600 20G16 *Cranp Mountain 13 405 21E 602 20H2 *Crowder Flat (Cal) 30 47N 11E 520 20H3 *Dlemal Swamp (Cal) 31 48N 16E 700 20G6 Quartz Mountain 2 38S 16E 535 4500 20H1 *State Line (Cal) 21 48N 11E 575 3136 20G9 Strawberry 4 40S 16E 566
PLEII Black Pine Spring 21F8 Caldwell Ranch 22F) Cascade Summit 21F7 Charlton Lake	14 16S 9E 4600 30 21S 8E 4400 7 23S 6E 4880 23 21S 6E 5750 21 27S 8E 4760 11 24S 6F 4760	COAST FORK WILLAHETTE RIVER 22F9 Champion 12 23S 1E 22F10 Colden Curry Creek 1 23S 1E 22F11 Layng Creek R. S. 31 21S 1E 22F12 Lund Park 22 22S 1E 22F11 Weaver Creek 35 22S 1E	20H3 *Dlemal Swamp (Cal) 31 48N 16E 700 20C6 Quartz Mountsin 2 J8S 16E 532 4500 20H1 *State Line (Cal) 21 48N 11E 575 3136 2009 Strawberry 4 40S 16E 560
Fll Chemult F9 Crescent Lake Fll Fine Feed	21 27S 8E 4760 11 24S 6E 4760 36 21S 11E 5050	22F13 Layng Creek R. S. 31 21S 1E 22F12 Lund Park 22 22S 1E	1200 1740 ABERT LAKE
Crescent Lake Li Fire Road Co Hogg Pass Li Hungry Flat Firsh-Faylor Nowich O New Crescent Lake	24 13S 7½E 4755 30 18S 11E 4400 25 20S 6E 5500 29 25S 8E 4700 11 24S 6E 4800	22F11 Weaver Creek 35 225 15 MARY'S RIVER 23E1 Mary's Peak 21 12S 7W	20G11 *Cox Flat 16 37S 18E 575 20G14 *Finley Corral* 11 36S 10E 66G
72 New Dutchman Flat F1) Paulina Lake	11 24S 6E 4800 21 18S 9E 6400 34 21S 12E 6330	ROGUE, UMPOUA WATERSHEDS (9)	
F15 Paulina Prairie F3 Tangent E13 Three Creek Meadows	28 21S 11E 4285 28 18S 10E 5400 3 17S 9E 5600	ROGUE RIVER	SUMMER LAKE 20G2 Summer Rim 15 33S 16E 720
2F2 Waldo Lake 2F14 Willamette Pass 2F15 Windigo Pass	15 21S 6E 5500 33 24S 5½E 5600 20 25S 6E 5800	23G4 Althouse	4530 SILVER LAKE 6500 S100 21F12 S11vor Creek 25 & 26 29S 13E 490 4865 20G13 *Sycan Flat 25 31S 14E 550
CROOKED RIVE		22G14 Fish Lake 3 37S 4E 22G12 Fournile Lake 9 36S 5E 23G3 Grayback Peak 9 40S 5W	4865 20013 "Sycan Flat 25 313 142 376 6000 WARNER LAKE
19E3 Derr 20E1 Marks Creek 20E2 Ochoco Meadows 19F1 Snow Mountain 19E4 Tamarack	14 13S 23E 5670 25 12S 19E 4540 21 13S 20E 5200 1 19S 26E 6300 8 15S 25E 4800	2003 Application 2004	2500 5010 2008 Camas Creek 5 398 21E 572
OOD, MILE CREEKS, LOWER DESCH	HUTES WATERSHEOS (6)	22G5 Park Headquarters 8 31S 68 22H1 Scragg Mountain (Cal) 9 47N 100	6450 6200 GUANO LAKE 6200 19Hl Bald Mountain (Nev) 17 45N 21E 672
HOOO RIVER	2 20 10% 1200	22011 Seven Lakes No. 2 26 333 5E 2202 Silver Burn 30 30S 4E 22020 Siskiyou Sumit 17 40S 22 2202 Siskiyou Sumit 17 40S 23	6200 6800 19H1 Bald Mountain (Nev) 17 45N 21E 672 6200 19G1 "Hart Mountain 1 36S 25E 635 4630 3500
2106 Brooks Meadows 21D1 Greenpoint Reservoir 21D8 Phlox Point	28 2N 9E 3400 6 3S 9E 5600	22G18 Wagner Butte 1 4,08 1W 22G1+ Whaleback 3 31S 2E	6900 HARNEY BASIN WATERSHEDS (12)
SION VEG UTTT	21 1S 9E 4400 25 3S 8½E 3700 15 2S 9E 6000	UMPQUA RIVER	SILVIES RIVER - SILVER CREEK 19F2 Delintment Lake 28 19S 26E 5600
MILE CREEKS - MOSIE		22F9 Champion 12 23S 1E 22F18 Olamond Lake 29 27S 6E 22F16 North Umpqua 19 26S 6E 22F17 Trap Creek 1 27S 4E	4500 19F3 Emigrant Butte 14 21S 27E 500
21D6 Brooks Meadows LOHER DESCHUTES R		22F17 Trap Creek 1 27S 4E 22G1 Whaleback 3 31S 2E 22F15 Windigo Pass 20 25S 6E	1867 1867 1864 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1874
21D12 Clear Lake 21E6 Hogg Pass	29 4S 9E 3500 24 13S 7½E 4755	KLAMATH WATERSHEDS (10)	OONNER UNO BLITZEN RIVER
LOWER COLUMBIA WATER		KLAMATH RIVER	18G2 Fish Creek 4 338 33E 7900 19G1 **Hart Hountain 1 36S 25E 6350 6018 18G1 Silvice 35 323 32E 6900
SANDY RIVER		22G6 Annie Spring 19 31S 6E 22G13 Billie Creek Oivide 30 36S 5E 21G5 Bly Mountain 15 4 22 37S 11E	5300
21D8 Phlox Point 21D9 Still Creek	6 3S 9E 5600 25 3S 8½E 3700	22G13 Billie Creek Divide 15 4 22 37S liE 21F11 Chemult 21 27S 8E 20G12 **Crazyman Flat 9 34S 15E	4760 6100 18H1 Oleaster Peak (Nev) 8 47N 34E 6500



The following organizations cooperate in the Oregon Snow Survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil Conservation Districts of Oregon

FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior

Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service

Department of National Defense Corps of Army Engineers

PUBLIC UTILITIES

California-Pacific Utilities Company Pacific Power and Light Company Portland General Electric Company The California Oregon Power Company

MUNICIPALITIES

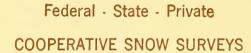
City of Baker City of La Grande City of The Dalles City of Walla Walla

IRRIGATION DISTRICTS

Associated Ditch Companies Central Oregon Irrigation District Deschutes County Municipal Improvement District East Fork Irrigation District Grants Pass Irrigation District Jordan Valley Irrigation District Lakeview Water Users, Incorporated Medford Irrigation District North Board of Control - Owyhee Project North Unit Irrigation District Ochoco Irrigation District Rogue River Valley Irrigation District South Board of Control - Owyhee Project Talent Irrigation District Vale-Oregon Irrigation District Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company
The Crag Rats, Hood River, Oregon



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

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